# CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, June 4, 1908.

## CONTENTS.


CONSTRUCTION NEWS:
Plans and Specifications on File ..... 189
List of Contracts Pending ..... 189
Railway ..... 190
Electric Railways ..... 190
Light and Power Plants ..... 190
Bridges ..... 190
Building ..... 191
Water Supply and Irrigation ..... 192
Sewerage ..... 192
Garbage Disposal ..... 193
Streets and Roads ..... 193
Manufacturing Plants ..... 194
Miscellaneous Contracts ..... 194
U. S. Possessions and Cuba ..... 195
TRADE PUBLICATIONS ..... 195
PROPOSALS ..... 196


## CONSTRUCTION NEWS.

### PLANS AND SPECIFICATIONS ON FILE.

*(* denotes that this work is advertised in Engineering News.)*

The following Plans (P.) and Specifications (S.) are on file and may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York.

| Bids. close. | Work. | Place. | See issue. |
|---|---|---|---|
| 6- 6 | *Reservoir, etc., | Neosho, Mo. (P. & S.) | 5-14 |
| 6- 6 | Air compressor, | Bremerton, Wash. (S.) | 5-14 |
| 6-10 | Levee, | Memphis, Tenn (S.) | 5-21 |
| 6-10 | Pipe, | Rome, N Y (S.) | 6- 4 |
| 6-12 | *Street impvts., | Olean, N. Y. (S.) | 6- 4 |
| 6-13 | Air compressor, | Phila., Pa. (S.) | 5-28 |
| 6-13 | Dredging, diking, etc., | Key West, Fla. (S.) | 5-21 |
| 6-18 | *Reservoir, | Springfield, Mass. (S.) | 6- 4 |
| 6-23 | *Bridge, | Wakeman, Ohio. (P. & S.) | 5-21 |
| 6-23 | Pumps, etc., | Minidoka, Idaho.... (P. & S.) | 5-28 |
| 6-24 | Elec. equip., | Minidoka, Ida.. (S.) | 6- 4 |
| 6-27 | Steel floats, | Newport, R. I.... (S.) | 6- 4 |
| 7-13 | *Lock, dam, | Vicksburg, Miss.. (S.) | 5-14 |
| 7-15 | *Channel, | Sunnyside, Wash.. (S.) | 6- 4 |

### LIST OF CONTRACTS PENDING.

#### LIGHT, HEAT AND POWER PLANTS.

| | | | |
|---|---|---|---|
| 6- 5 | *Lighting fixtures, | Wilkes-Barre, Pa. | 5- 7 |
| 6- 6 | Air compressor, | Bremerton, Wash. | 5-21 |
| 6- 8 | Wiring, | Prairie View, Tex | 5-21 |
| 6- 8 | Lighting, etc., | Galveston, Tex. | 6- 4 |
| 6-10 | *Conduit, etc., | Ogden, Utah. | 5- 7 |
| 6-11 | Elec. equip., | New York, N. Y. | 5-28 |
| 6-15 | Power plant, | Carrollton, Miss. | 6- 4 |
| 6-15 | Power plant, | Jefferson Barracks, Mo. | 5-28 |
| 6-17 | Lighting, | Natchez, Miss. | 5-14 |
| 6-19 | Power plant, | Chemawa, Ore. | 5-28 |
| 6-20 | Power-house, etc., | New Orleans, La. | 4-30 |
| 6-23 | *Conduit, etc., | Spokane, Wash. | 5-28 |
| 6-24 | Power plant, | Minidoka, Ida. | 6- 4 |
| 7- 1 | *Gas lighting, | Boston, Mass. | 6- 4 |
| 7- 1 | Light plant, | Lewisberg, Ohio. | 5-28 |

#### BRIDGES.

| | | | |
|---|---|---|---|
| 6- 4 | Bridge, | Eugene, Ore | 6- 4 |
| 6- 5 | *Viaduct, | Washington, D. C. | 5-28 |
| 6- 5 | *Bridge, | Russell, Mass. | 5-21 |
| 6- 5 | Viaduct, | Washington, Pa. | 6- 4 |
| 6- 6 | Bridge, | Lisbon, Ohio | 6- 4 |
| 6- 8 | Bridge work, | Hartford, Conn. | 6- 4 |
| 6- 8 | Abutments, | Moosejaw, Sask | 6- 4 |
| 6- 8 | Substructure, | Elyria, Ohio. | 5-28 |
| 6- 9 | Bridge, | Franklin, Pa. | 5-28 |
| 6- 9 | Bridges, | Ottawa, Ont. | 5-28 |
| 6- 9 | Bridges, | Williamsport, Pa. | 6- 4 |
| 6- 9 | Bridges, | Bloomsburg, Pa. | 6- 4 |
| 6-10 | Viaduct, etc., | Spokane, Wash. | 6- 4 |
| 6-10 | Bridge, | Spokane, Wash. | 5-28 |
| 6-10 | Bridges, | Chicago, Ill. | 5-28 |
| 6-10 | *Viaduct, | Buffalo, N. Y. | 5-21 |
| 6-10 | Bridges, etc., | Cleveland, Ohio. | 5-21 |
| 6-11 | Bridge fittings, | New York, N. Y. | 5-28 |
| 6-11 | Bridges, | Kentland, Ind. | 6- 4 |
| 6-11 | Abutment, | Hamilton, Ohio | 6- 4 |
| 6-12 | Superstructures, | Pittsburg, Pa. | 6- 4 |
| 6-12 | Bridge, | Ukiah, Cal. | 6- 4 |
| 6-15 | Bridges, | St. Clairsville, Ohio. | 5-28 |
| 6-16 | Bridges, | Salina, Kan | 6- 4 |
| 6-17 | *Bridges, | Jackson, Ohio. | 6- 4 |
| 6-18 | *Culvert, | Riverton, N. J. | 5-28 |
| 6-26 | Superstructure, | Cincinnati, Ohio. | 6- 4 |
| 6-27 | Substructure, | Findlay, Ohio | 6- 4 |
| 7- 7 | Bridges, | Yreka, Cal. | 5-28 |

#### BUILDINGS.

| | | | |
|---|---|---|---|
| 6- 5 | Cement plant, | Los Angeles, Cal. (Mfg. Pl.) | 6- 4 |
| 6- 6 | Buildings, | Fort Niagara, N. Y. | 5-21 |
| 6- 7 | Post-office, | Iola, Kan. | 6- 4 |
| 6- 8 | Hospital, | Calgary, Alta. | |
| 6- 8 | Post-office, | Dover, N. H. | 4-30 |
| 6- 8 | Blacksmith shop, | Ft. Bliss, Tex. (Mfg. Pl.) | 5-28 |
| 6- 8 | *Hospital, | Hanover, Pa. | 5-28 |
| 6- 9 | *Engine, | Ft. Wood, N. Y. | 5-14 |
| 6- 9 | Workhouse, | Hopewell, N. J. | 5-21 |
| 6- 9 | School, | Greenville, N. C. | 6- 4 |
| 6-10 | Marble work, | Washington, D. C. | 6- 4 |
| 6-10 | *Interior work, | Jersey City, N. J. | 5-21 |
| 6-10 | Plans, Yreka, Cal. | | 5-21 |
| 6-10 | School, | New Castle, Pa. | 5-21 |
| 6-10 | Buildings, | Ft. Slocum, N. Y. | 5-21 |
| 6-11 | Buildings, | Ft. Sam Houston, Tex. | 5-21 |
| 6-11 | *Elevators, | Seattle, Wash. | 5-14 |
| 6-11 | *Court-house, jail, | Wampsville, N. Y. | 5-28 |
| 6-11 | Jails, | Port Arthur, Ont. | 6- 4 |
| 6-11 | Dormitory, | New York, N. Y. | 6- 4 |
| 6-12 | Schools, | Toronto, Ont. | 6- 4 |
| 6-12 | Creamery, | San Luis Obispo, Cal. (Mfg. Pl.) | 6- 4 |
| 6-12 | Post-office, | St. Charles, Mo. | 5- 7 |
| 6-13 | Court-house, | Edmonton, Alta. | 5-21 |
| 6-15 | Library, | Springfield, Mass. | 5-28 |
| 6-15 | *Bowling alley, | Ft. Meade, S. Dak. | 5-28 |
| 6-15 | Bldgs., | Ft. Yellowstone, Wyo. | 5-28 |
| 6-15 | Schools, | New York, N. Y. | 6- 4 |
| 6-15 | Infirmaries, | New York, N. Y. | 6- 4 |
| 6-16 | Plans, | Richmond, Va. | 6- 4 |
| 6-16 | *Plumbing, etc., | Ft. Worth, Tex. | 5-21 |
| 6-17 | Post-office, | Newton, Kan. | 5-14 |
| 6-17 | Bakery, | Ft. Omaha, Neb. (Mfg. Pl.) | 6- 4 |
| 6-18 | *Post-office, | Houston, Tex. | 5-21 |
| 6-22 | *Post-office, | Provo, Utah. | 5-14 |
| 6-22 | *Jail bonds, | Culpeper, Va. | 5-28 |
| 6-22 | *Closet, etc., | Ft. Wood, N. Y. | 6- 4 |
| 6-22 | *Educational bldg., | Albany, N. Y. | 6- 4 |
| 6-24 | Laundry, | Canton, S. Dak. (Mfg. Pl.) | 6- 4 |
| 6-24 | *Baths, | Albany, N. Y. | 6- 4 |
| 6-24 | Post-office, | Fayetteville, Ark. | 5-21 |
| 6-25 | Post-office, | Greenville, Tex. | 5-21 |
| 6-25 | *Barracks, | Ft. Hancock, N. J. | 5-28 |
| 6-29 | *Post-office, | Sumter, S. C. | 5-21 |
| 6-29 | *City hall, | Massillon, Ohio | 6- 4 |
| 6-29 | *Hospital, | Ft. D. A. Russell, Wyo. | 6- 4 |
| 6-30 | *Post-office, | Meadville, Pa. | 5-21 |
| 6-30 | Plans, | Portland, Ore. | 5-28 |
| 7- 1 | Mech. equip., | Baltimore, Md. | 5-28 |
| 7- 2 | *Post-office, | Columbia, Tenn. | 5-28 |
| 7- 3 | *Bldgs., | West Point, N. Y. | 6- 4 |
| 7- 6 | Post-office, | Marietta, Ga. | 5-28 |
| 7- 9 | *Post-office, | Springfield, Ohio. | 6- 4 |
| 7-14 | *Wrecking, etc., | Chicago, Ill. | 5-28 |
| 8- 1 | Plans, | St. Paul, Minn. | 4-30 |

#### WATER-WORKS.

| | | | |
|---|---|---|---|
| 6- 5 | W.-wks. impvt., | Michigan City, Ind. | 5-28 |
| 6- 6 | *Reservoir, | Neosho, Mo. | 5- 7 |
| 6- 6 | Water-pipe, | Washington, D. C. | 5-21 |
| 6- 6 | Reservoir, | Carson City, Nev. | 5-21 |
| 6- 6 | Water-works, | Templeton, Iowa | 6- 4 |
| 6- 8 | Irrigation work, | Minitonas, Man. | 6- 4 |
| 7- 8 | Dam, | Ottawa, Ont. | 5-21 |
| 6- 9 | *Pipe, | Kimberly, Nev. | 5-14 |
| 6- 9 | W.-wks supplies, | Buffalo, N. Y. | 5-28 |
| 6- 9 | Water-works, | Mont Alto, Pa. | 5-28 |
| 6- 9 | Water system, | Sheridan, Wyo. | 5-28 |
| 6-10 | Water pipe, | Rome, N. Y. | 5-28 |
| 6-10 | Water mains, etc., | New York. | 6- 4 |
| 6-12 | Water-works, | Springfield, Minn. | 6- 4 |
| 6-15 | Reservoir, | Unionville, Conn. | 6- 4 |
| 6-15 | Pipe, | Victoria, Wash. | 6- 4 |
| 6-15 | Water system, | Fort Hamilton, N. Y. | 5-28 |
| 6-15 | Water system, | Fort St. Philip, La. | 5-21 |
| 6-15 | *W.-wks machinery, | Edmond, Okla. | 5-21 |
| 6-16 | C.-I. pipe, | Cincinnati, Ohio. | 5-28 |
| 6-16 | Water system, | Wahpeton, N. Dak. | 5-28 |
| 6-16 | Conduit, | Guelph, Ont. | 6- 4 |
| 6-18 | *Reservoir, | Springfield, Mass. | 5-28 |
| 6-19 | *Water bonds, | Kiowa, Kan. | 6- 4 |
| 6-24 | *Pumps, | Schenectady, N. Y. | 6- 4 |
| 6-25 | Pump, | Grand Rapids, Mich. | 5-28 |
| 6-25 | *Pumping engine, | Grand Rapids, Mich. | 6- 4 |
| 6-30 | *W.-Works, | Columbia, Miss. | 6- 4 |
| 6-30 | *Pumps, etc., | New Orleans, La. | 4-22 |
| 7- 1 | W.-Wks, | Lewisberg, Ohio. | 5-28 |
| 7- 1 | *Pumping station, | Elizabeth, N. J. | 6- 4 |
| 7- 7 | *Intake pier, etc., | Toledo, Ohio. | 6- 4 |
| 7- 8 | *Boilers, | Atlanta, Ga. | 6- 4 |
| 7-15 | *Channel, | Sunnyside, Wash. | 5- 7 |
| 7-27 | *Aqueduct, | Los Angeles, Cal. | 6- 4 |
| 7-27 | *Pump, | Houston, Tex | 6- 4 |

#### SEWERS.

| | | | |
|---|---|---|---|
| 6- 5 | Sewers, | Peru, Ind | 6- 4 |
| 6- 5 | Sewer, | Green Bay, Wis | 6- 4 |
| 6- 6 | Sewers, | Sullivan, Ind. | 5-21 |
| 6- 8 | Sewers, | Aberdeen, S. Dak. | 6- 4 |
| 6- 8 | Sewers, | Washington, D. C. | 6- 4 |
| 6- 8 | Sewer, | Boonville, Mo. | 6- 4 |
| 6- 8 | Sewer, | Ames, Iowa | 6- 4 |
| 6- 9 | Sewer, | Virginia, Minn. | 6- 4 |
| 6-10 | Sewer, | New York, N. Y. | 6- 4 |
| 6-10 | *Sewer, | Baltimore, Md. | 5-21 |
| 6-10 | Sewer, | Oakland, Cal. | 5-28 |
| 6-11 | Sewers, | Downers Grove, Ill. | 6- 4 |
| 6-15 | Sewer, | Napoleon, Ohio | 6- 4 |
| 6-15 | Sewer lift, | Houston, Tex. | 6- 4 |
| 6-15 | *Sewers, | Washington, D. C. | 6- 4 |
| 6-15 | Sewer, | Melrose Park, Ill. | 6- 4 |
| 6-15 | Sewer, | Auburn, Ind. | 6- 4 |
| 6-16 | Sewer work, | East Hartford, Conn. | 6- 4 |
| 6-16 | *Sewers, | Lake Placid, N. Y. | 6- 4 |
| 6-19 | Sewer, | Boston, Mass | 6- 4 |
| 6-22 | *Sewers, etc., | E. Rutherford, N. J. | 6- 4 |
| 6-30 | *Sewer, | Columbia, Miss. | 6- 4 |
| 6-30 | Sewerage machinery, | New Orleans, La. | 5-14 |
| 7- 1 | *Sewer, | Elizabeth, N. J. | 5-28 |

#### STREETS AND ROADS.

| | | | |
|---|---|---|---|
| 6- 5 | Road, | Brookville, Ind. | 5-28 |
| 6- 5 | Grading, etc., | Duluth, Minn. | 6- 4 |
| 6- 5 | Gutters, | Louisville, Ky. | 6- 4 |
| 6- 5 | Roads, | Jonesville, Va. | 6- 4 |
| 6- 6 | Macadam, | Tiverton, R. I. | 6- 4 |
| 6- 6 | Roads, | Delphi, Ind. | 5-28 |
| 6- 6 | Road, | Crawfordsville, Ind. | 5-21 |
| 6- 6 | Walks, | Fort Niagara, N. Y. | 5-21 |
| 6- 8 | *Paving, | Newark, N. J. | 5- 7 |
| 6- 8 | *Gravel road, | Cape May, N. J. | 5-14 |
| 6- 8 | Macadam, | Mt. Kisco, N. Y. | 5-21 |
| 6- 8 | Street work, | Latrobe, Pa. | 6- 4 |
| 6- 8 | Paving, etc., | Bay City, Wis. | 6- 4 |
| 6- 8 | Concrete walks, | Huntsville, Ont. | 6- 4 |
| 6- 8 | Walk, | Mille Roches, Ont. | 6- 4 |
| 6- 8 | Roads, | Hartford, Conn | 6- 4 |
| 6- 8 | Paving, | Washington, D. C. | 6- 4 |
| 6- 8 | Bridge work, | Lorain, Ohio | 6- 4 |
| 6- 9 | Paving, | Paducah, Ky. | 6- 4 |
| 6- 9 | Sidewalks, | South Orange, N. J. | 6- 4 |
| 6- 9 | Sidewalk, | L'Original, Ont. | 6- 4 |
| 6- 9 | Roads, | Portland, Ind | 6- 4 |
| 6- 9 | Street impvt., | Cincinnati, Ohio. | 6- 4 |
| 6- 9 | Roads, | Portland, Ind. | 5-21 |
| 6- 9 | Street impvts., | Cambridge City, Ind | 5-28 |
| 6-10 | Grading, etc., | Warren, Pa. | 6- 4 |
| 6-11 | Asphalt walks, | New York, N. Y. | 6- 4 |
| 6-11 | Macadam, | LaPorte, Ind. | 5-28 |
| 6-11 | Macadam, | Janesville, Wis. | 5-21 |
| 6-12 | *Street impvt., | Olean, N. Y. | 5-28 |
| 6-13 | Roads, | Bedford, Ind. | 5-28 |
| 6-13 | *Grading, | Washington, D. C. | 6- 4 |
| 6-15 | Macadam, etc., | Tacoma, D. C. | 5-28 |
| 6-15 | *Concrete walks, | Fort Barrancas, Fla. | 5-14 |
| 6-15 | *Paving, | Mt. Carmel, Ill. | 6- 4 |
| 6-15 | Paving, | Montgomery, Ala. | 6- 4 |
| 6-15 | Sidewalks, | Clarksdale, Miss. | 6- 4 |
| 6-15 | Gutter, etc., | Fort Dodge, Iowa. | 6- 4 |
| 6-15 | *Paving, | Herkimer, N. Y. | 6- 4 |
| 6-16 | *Road, | Freehold, N. J. | 5-28 |
| 6-18 | *Paving, | Johnson City, Tenn. | 5-28 |
| 6-18 | Road, | Harrisburg, Pa. | 6- 4 |
| 6-20 | Macadam, etc., | Tacoma, D. C. (S.) | 6- 4 |
| 6-22 | Roads, | Fort Dade, Fla. | 6- 4 |
| 6-22 | Paving, | Aberdeen, S. Dak. | 6- 4 |
| 6-22 | Paving, | Warren, Ohio. | 6- 4 |
| 6-22 | Paving, | Selma, Ala | 5-28 |
| 6-23 | Road, | Toms River, N. J. | 6- 4 |
| 6-24 | *Road, | Madison Barracks, N. Y. | 6- 4 |
| 6-24 | Road, | Indianapolis, Ind. | 6- 4 |
| 6-24 | *Paving, | Cadiz, Ohio. | 5-28 |
| 6-26 | Road impvt., | Cincinnati, Ohio. | 6- 4 |
| 7- 1 | *Roads, | Fort Barrancas, Fla. | 5-21 |

#### MISCELLANEOUS.

| | | | |
|---|---|---|---|
| 6- 5 | Hot-house, | Trenton, N. J. | 5-28 |
| 6- 6 | Air compressor, | Bremerton, Wash. | 5-14 |
| 6- 6 | Rock, | New Orleans, La. | 5-21 |
| 6- 8 | Iron posts, | Ottawa, Ont. | 5-21 |
| 6- 9 | Treated lumber, | New Orleans, La. | 5- 7 |
| 6- 9 | Rubber hose, | New York. | 6- 4 |
| 6-10 | Rubber tires, | New York. | 6- 4 |
| 6-10 | Ditch, | Fairmont, Minn. | 6- 4 |
| 6-10 | Ditch, | Barnesville, Minn. | 6- 4 |
| 6-10 | Traveling cranes, | New York. | 6- 4 |
| 6-10 | Launches, steamers, | Wash., D. C. | 5-21 |
| 6-10 | Levee, | Memphis, Tenn. | 5-21 |
| 6-10 | Elec. ry., | Oregon, Mo | 5-28 |
| 6-11 | Ditch, | Fergus Fall, Minn. | 6- 4 |
| 6-12 | Cement, | Pittsburg, Pa. | 6- 4 |
| 6-12 | Telephone system, | Harding Man. | 5-28 |
| 6-13 | Air compressor, | Phila., Pa. | 5-28 |
| 6-13 | *Dredging, diking, etc., | Key West, Fla. | 5-21 |
| 6-15 | Wharf, etc., | Ft. Morgan, Ala. | 5-28 |
| 6-15 | Steamers, | San Francisco, Cal. | 5-28 |
| 6-15 | Seawall, | San Francisco, Cal. | 6- 4 |
| 6-16 | Drains, | Boone, Iowa | 6- 4 |
| 6-16 | Brush and poles, | Vicksburg, Miss. | 5-28 |
| 6-16 | Levee, | Memphis, Tenn | 5-28 |
| 6-17 | Hoisting engines, | Bklyn., N. Y. | 6- 4 |
| 6-19 | Ditch, | Council Bluffs, Iowa | 6- 4 |
| 6-19 | *Breakwater, | Boston, Mass. | 6- 4 |
| 6-20 | Launches, | Wash., D. C. | 6- 4 |
| 6-23 | *Dike, | Harrisburg, Pa. | 6- 4 |
| 6-23 | *River work, | Columbus, Ohio. | 6- 4 |
| 6-25 | Dredging, | Seattle, Wash. | 6- 4 |
| 6-26 | *Dam, guide walls, etc., | Chapman, Ky. | 6- 4 |
| 6-27 | Steel floats, | Newport, R. I. | 6- 4 |
| 6-27 | *Concrete wall, | Riverton, Ala. | 5-28 |
| 7- 1 | Ditch, | Crookston, Minn. | 6- 4 |
| 7- 2 | *Dam, etc., | Saltpetre, W. Va. | 6- 4 |
| 7- 6 | *Piping, | Boston, Mass. | 6- 4 |
| 7- 8 | Dam, bridge, etc., | Winnipeg, Man. | 5-28 |
| 7-13 | *Lock, dam, | Vicksburg, Miss. | 5-14 |
| 7-13 | *Lock and dam, | Harrisonburg, La. | 6- 4 |
| 8-14 | Light-house, | Alaska | 5-21 |
| 9- 1 | Monument designs, | Mexico | 5-21 |

#### CIVIL SERVICE.

| | | | |
|---|---|---|---|
| 6- 6 | Axeman, | Albany, N. Y. | 5-21 |
| 6- 6 | Chief Engr., | Albany, N. Y. | 5-21 |
| 6- 6 | Examiner, | Albany, N. Y. | 5-21 |
| 6- 6 | Inspector Weights, Measures, | Albany, N. Y. | 5-21 |
| 6-17 | Elevator Electrician, | Tampa, Fla. | 4-19 |
| 6-17 | Clerk, draftsman, | Nev.-Mont. | 6- 4 |
| 6-24 | Lab. Asst., | Wash, D. C. | 4-19 |
| 7- 1 | Asst. Coiner—New Orleans, | La. | 6-11 |
| 7- 1 | Asst. Chemist, | Wash, D. C. | 6-11 |
| 7- 1 | Tech. Asst., Pharmacology, | Washington, D. C. | 6-11 |
| 7-22 | Elec. Engr.-Mech. Draftsman, | Washington, D. C. | 6-11 |
| No date | Teacher, Asst., | Philippines | 6-11 |

### RAILWAYS.

*(* denotes that this work is advertised in Engineering News.)*

ALASKA CENTRAL.—On application of John F. Ballaine, of Seattle, Wash., Judge Silas Reid, of the Federal Court, Fairbanks, Alaska, has placed the Alaska Central R. R. Co. in the hands of a receiver, and appointed John F. Goodwin, of Fairbanks, as receiver.

ALTUS, ROSWELL & EL PASO.—E. K Stimson, Ch. Engr., Altus, Okla., advises us that contracts will be let within two months for bridging and track-laying. Contracts have been let for 34 miles of grading. The contractors are A. KEY, Hollis, Okla.; W. S. HINES, Altus, Okla.; NELS ANDERSON, Duke, Okla. Eight miles of the line are graded. This railway will be built from Altus, Okla., via Roswell, N. Mex., to El Paso, Tex., 400 miles. Surveys have been made for 75 miles. Right-of-way for 34 miles is secured. Edward Kennedy is Pres., Altus. Noted on May 7.

ARKANSAS PACIFIC.—Geo. D. Locke, Pres., Mangum, Okla., informs us that contracts for building this railway probably will be let about Oct. 1, 1908. Surveys have been partly made. The line will extend from Memphis, Tenn., to Fort Smith, Ark., Tulsa and Lehigh, Okla., and to Dennison and Abilene, Tex., with a branch from Lehigh to Mangum, Okla., and thence west through the Texas Panhandle to Roswell, N. Mex., 1,500 miles. Right-of-way is partly obtained. Capital has been secured.

BROOKINGS & PEACH ORCHARD.—Incorporated in Arkansas with a capital of $6,000 to build a 3-mile road from Brookings, Clay County, to Mollus, in Greene County, where it will connect with the St. Louis, Iron Mountain & Southern Ry. The incorporators are: Henry, H. H. and Arthur Quellmalz, of St. Louis; Henry F. Pirtle, of Deisplaine, Ark.; Joseph Nester and W. D. Polk, of Conway, Ark., and W. J. Brown, of Brookings.

CHICAGO, BURLINGTON & QUINCY.—It is reported that a spur from Cheyenne, Wyo., to Fort Russell will be built this summer in order to enable the road to furnish supplies direct to Fort Russell. T. E. Calvert is Ch. Engr., Chicago, Ill.

GRAND RAPIDS & NORTHWESTERN.—Company has filed a mortgage to cover issuance of $5,000,000 of bonds for building this railroad. This line will connect Grand Rapids and Ludington.

IDAHO NORTHERN.—The PACIFIC COAST CONSTRUCTION CO., Portland, Ore., which has contract for building this railroad, will begin track laying work soon. It will have under construction 33 miles of line between Paragon Gulch, five miles above Murray, Idaho, to a connection with the O. R. & N. R. R., at Enaville, Idaho. E. P. Spalding, Wallace, Idaho, is Vice-Pres. and Gen. Mgr. and W. P. Smith, Enaville, Idaho, is Ch. Engr. Previously noted.

IDAHO & NEVADA.—Incorporated in Idaho on May 22 to build a railroad from Twin Falls, Idaho, to Wells, Nev. Officers are as follows: Pres., H. L. Hollister, of Chicago; Vice-Pres., I. B. Perrine, Twin Falls; Secy., R. M. McCollum, Twin Falls; Treas., C. B. Hurtt, Boise. These, with Attorney S. H. Hays, of Boise, comprise the Board of Directors. The principal place of business of the company is Boise. Capital stock, $225,000; this, however, is only the temporary capital stock. With the advancement of the plans of the company the capital stock will be added to. From Twin Falls, Idaho, to Wells, Nev., the Idaho & Nevada R. R. Co. will build a standard-gage road, a distance of 114 miles, on an easy grade up the Salmon River Valley through the Salmon River tract to be opened for entry in June. The surveys have been completed. The road will pass through only one short tunnel, which is 1,700 ft. in length and is within two miles of the mining town of Contact, a copper camp in Northern Nevada. At Wells, Nev., the road will connect with the Southern Pacific and Western Pacific and 18 miles west of Wells joins the Nevada Southern.

MISSOURI RIVER & NORTHWESTERN.—This railway will be sold on June 22 at Rapid City, S. Dak., under a decree of foreclosure. It extends from Rapid City to Mystic, 35 miles. C. D. Crouch is Pres. and J. L. Soule is Audr., Rapid City.

NEW ORLEANS GREAT NORTHERN.—N. G. Pearsall, Gen. Mgr., Covington, La., advises us that nothing has been done yet toward letting new construction contracts. Previously noted. This railroad will be built from New Orleans, La., to Jackson, Miss., 180 miles, with branches, making a total of about 300 miles. Now completed to Slidell, La., northward on main line into Mississippi 115 miles; Pearl River to Folsom, La., 37 miles; branch to Mandeville, La., 12 miles; branch, Slidell to Abita Springs, La., via Mandeville, 26 miles; branch via Franklinton to Tylerton, Miss., 41 miles. Trackage, New Orleans & Northeastern R. R., New Orleans to Slidell, La., 29 miles; total, 260 miles. Under construction, about 40 miles into Jackson, Miss. Stock, $4,242,200.

OKLAHOMA CENTRAL.—The New York "Tribune" states that this company, which operates a railway from Lehigh to Chickasha, Okla., via Purcell, 130 miles, "went into the hands of a receiver on May 27. Radical legislation, which first prevented the sale of the road and then blocked a loan of $300,000 already arranged in Philadelphia, is given by Pres. Dorset Carter as the cause of bankruptcy."

OREGON EASTERN.—This company has filed amended articles of incorporation in Oregon. Company proposes to build a line from Lakeview, Ore., south to the State line, 15 miles. The country to be traversed is easy for construction work, it being level for the most part. A reconnoisance has been made by surveyors for the railroad company. It is expected construction of the road will be begun during the coming season. This is said to be a Harriman project.

PORT ARTHUR, BEAUMONT & WACO AIR LINE.—Company will be organized under this title to build a railway in Texas connecting these cities. Construction may begin soon. John W. Gates, R. C. Duff, J. F. Keith, William Weiss, J. N. Gilbert, R. A. Greer, C. T. Helsig and B. R. Norvell, all of Beaumont, Tex., are interested.

SAN JUAN, TAVICHE & OAXACA.—An extension of two years from May 9, 1908, has been granted to C. A. Hamilton, of Oaxaca, to build this line. The projected route is from San Pablo Zimatlin, Oaxaca, to Taviche, about 17 miles.

TEXAS.—F. T. Pryor, of San Antonio, Tex., Pres. of the Cattle Raisers' Association of Texas, is reported to be interested in a plan to build the proposed railroad to be built from Uvalde to Crystal City, which is on the Cross S ranch, a distance of 50 miles. Mason Williams, Hal L. Howard and Carl Groos, of San Antonio, are also interested.

WABASH-PITTSBURG TERMINAL.—On May 29 Judge James S. Young, in the United States Court, Pittsburg, on application of the Wabash R. R. Co. and other creditors, appointed receivers for the Wabash-Pittsburg Terminal R. R. Co. The company joined in the application for the appointment, and the court named Francis H. Skelding, Pres. of the First National Bank of Pittsburg, and Henry W. McMaster, Gen. Supt. of the company, as receivers. In the statement filed, the liabilities of the company are placed at $57,252,100, while the assets are "unknown." The liabilities consist of promissory notes to the Wabash Railroad and loans and interest to the Equitable and Mercantile Trust Com-

panies, of New York, and others. The Wabash-Pittsburg Terminal is the Pittsburg entrance of the Gould system. The road is 59.9 miles long, extending from Pittsburg to Jewitt Junction, Ohio, where it connects with the Wheeling & Lake Erie, which is controlled by the Pittsburg Terminal. The latter also owns the West Side Belt Line and Pittsburg Terminal Railroad & Coal Co. The company was formed on May 7, 1904. The cost of the road was $21,000,000, it being one of the most expensive to build in the United States. By an agreement with the Carnegie Steel Co. it was to receive one-fourth of that company's business, but was unable to handle it because of insufficient cars. Shortage of money to operate and pay indebtedness caused the present trouble.

## ELECTRIC RAILWAYS.

FREEPORT (L. I.), N. Y.—J. R. Savage, Ch. Engr. of the Long Island R. R. Co., Jamaica, informs us that the item in the issue of May 21 "regarding the proposed extension of the L. I. R. R. to connect Hempstead and Freeport is without the slightest foundation, and as I understand it, principally a land booming scheme."

ROCHESTER, N. Y.—Construction contracts will be let soon by the Rochester, Scottsville & Caledonia Electric R. R. Co. D. C. Salyerds, of Rochester, is Pres. The company plans to build a line from Rochester to Le Roy and extend it to Batavia, building on a private right-of-way. As previously noted, we were officially advised that surveys have been made for this line from Rochester to Portage Falls, via Scottsville, Le Roy and Perry, N. Y., a distance of 52 miles. Capital and right-of-way are stated to have been secured. Le Grand Brown is Ch. Engr., 16 State St., Rochester, N. Y. Noted on Jan. 23.

ONANCOCK, VA.—We are officially advised that the Accomac Traction & Power Co. proposes to let contracts for construction of its proposed standard-gage electric railway in about four weeks. It will be 9⅛ miles in length and will connect Onancock, Tasley, Accomac and Metomkin Bay. The officers of the company are as follows: Spencer F. Rogers, Finney, Va., Pres.; Dr. John H. Ayres, Accomac, Va., Vice-Pres.; T. W. Taylor, Onancock, Va., Secy.; John S. Maples, Onancock, Va., Treas.; James D. Lalor, 412 Perry Bldg., Philadelphia, Pa., Ch. Engr. Capital, $175,000. Noted on Feb. 27. Surveys are made and capital and right-of-way are secured.

ATLANTA, GA.—The Atlanta & Carolina Ry. Co. has filed a mortgage to secure $6,000,000 of 5 per cent. 30-year bonds to build its proposed electric railway from Atlanta to Augusta, Ga., about 200 miles. On April 2 it was noted that "we are officially informed that the Atlanta & Carolina Ry. Co. will let contracts about June 1 for its proposed electric line between Atlanta and Augusta, Ga. Surveys are made. Right-of-way and capital have been secured. J. W. English is Pres. and Matthew Mason is Vice-Pres. and Gen. Mgr., at Atlanta."

NEWCOMB, TENN.—Peter Zechini, of Newcomb, is interested in plan to build an electric railroad from Newcomb to Jellico, Tenn.

PADUCAH, KY.—The Paducah & Cairo Interurban Ry. Co., it is announced, has been granted a franchise to build its line in Paducah. The line will extend from Paducah to East Cairo, Ky., where it will connect with ferry boats operating between East Cairo and Cairo, Ill.

CLEVELAND, OHIO.—The Wheeling & Western Traction Co., of Cleveland, has been incorporated with a capital stock of $1,000 for the purpose of operating street railways in Uhrichsville, Dennison, Bridgeport, Cambridge, Steubenville, Zanesville and Bellaire, Ohio. The incorporators are: A. E. Townsend, T. H. Bierbach, Josiah Wolf, Nathan Fromstine and Herbert, Goldpaden.

LOWELL, OHIO.—Jos. P. Horstman, Ch. Engr. of the Parkersburg, Marietta & Interurban Ry. Co., Parkersburg, W. Va., advises us that preliminary surveys have been made for building a line from Lowell to Coal Run and Beverly, Ohio, ten miles, under charter granted to the Muskingum River Traction Co. Right-of-way and capital have not been secured yet. No steps have been taken toward letting contracts. C. H. Shattuck is Pres., Parkersburg.

CROWN POINT, IND.—A committee of business men of Crown Point have secured a 50-ft. right-of-way from Crown Point to Gary, Ind., eleven miles, which they will donate to any company which will build an interurban railway connecting either Gary or Hammond and Crown Point before May 1, 1910. The property is held by three trustees, John Brown, W. G. Woods and H. E. Sasse, who also have a franchise over the Lake County highways. The County Commissioners have appropriated $37,500 for the construction of a concrete bridge over the Little Calumet River at Crown Point, which could be used by an electric line.

ADRIAN, MICH.—P. P. Duket, of Adrian, is promoting an electric railway to connect Adrian and Coldwater.

MURPHYSBORO, ILL.—The Murphysboro Elec. Ry., Light, Heat & Power Co. will build a 3-mile extension to its present 2-mile line. W. C. Alexander is Gen. Mgr.

SPARTA, WIS.—The Sparta & Melrose Elec. Ry. & Power Co., is reported to have commenced construction of its proposed railway, which will run from Sparta to Melrose, about 28 miles. Officers are as follows: Pres., Charles Newland; Vice-Pres., James Cole; Secy., Howard Teasdale; Treas., W. A. Sholes.

HAMILTON, IOWA.—John A. Nelson, Ch. Engr. of the Chicago, Ottumwa & Western R. R. Co., Hamilton, advises us that this company proposes to build from Hamilton to Dallas, Iowa, 24 miles. Surveys have been made and right-of-way is mostly obtained. Capital is secured. No contracts have been let, as company probably will build the railroad. It is planned to extend it later westward to Des Moines and Indianola and eastward to Ottumwa. Noted on May 7.

MINNEAPOLIS, MINN.—The Minnesota Construction Co. has been organized with a capital stock of $100,000, to build an electric railway from Minneapolis to Medicine Lake, Minn., which is to be extended later to Montevideo, via Wayzata, Long Lake, Stubbs Bay and Winsted. Right-of-way has been obtained for the first section, which will be six miles long. John Blichfeldt is Pres., Temple Court, Minneapolis; W. W. Bardwell, Loan & Trust Bldg., Minneapolis, is Secy.-Treas.

JOPLIN, MO.—A. L. Register & Co., Miners Bank Bldg., Joplin, Engrs., have awarded contract to the WOOD BROS. CONSTRUCTION CO., Springfield, Mo., for laying 25 miles of 70-lb. rail between Joplin, Mo., and Pittsburg, Kan., for the Joplin & Pittsburg Ry. Co. Contracts for the complete construction, for the catenary and overhead lines between these points has been awarded to SMETHURST & ALLEN CO., North American Bldg., Philadelphia. Noted fully on May 14.

LITTLE ROCK, ARK.—The Little Rock & Hot Springs Elec. Ry. Co. probably will begin construction on its proposed line from Little Rock to Hot Springs, Ark., 56 miles, including three miles of city line in the two cities this summer. Contracts have not yet been let. The road will serve a population of 250,000, and will be built and equipped for handling freight and passenger traffic. C. J. Kramer, 319 Main St., Little Rock, is Pres.; J. C. Marshall, Secy.; G. W. Rogers, Treas.; P. M. Pierce, Elec. Engr.; N. Garrett is Vice-Pres. and Gen. Mgr. Noted on April 30.

COLLINSVILLE, OKLA.—The Cherokee Belt & Interurban Ry. Co. is making preliminary surveys for its proposed line connecting Skiatook, Collinsville, Claremore and Prior Creek, Okla., a distance of 45 miles. Construction work probably will be started about Oct. 1. The company was recently incorporated with a capital stock of $500,000. Officers: Pres., E. Batchman, St. Louis; Vice-Pres. and Gen. Mgr., F. E. Montel, Kansas City, Mo.; Secy., J. R. Caudley; Treas., E. Pease, and Arthur E. Leap, Supt., all at Collinsville. Noted on March 26.

SHAWNEE, OKLA.—The Shawnee Chamber of Commerce has pledged a bonus of $75,000 to any company that will build an electric railway from Shawnee to Muskogee. Okmulgee and Okemah have also pledged $25,000 each.

The Oklahoma, El Reno & Shawnee Rapid Transit Ry. Co. has been incorporated at Guthrie. The incorporators are Charles A. Huber, Pres.; J. A. Niblo, W. M. Sawyer and S. L. Niblo, of Oklahoma City. The line will cost $20,000 a mile. The right-of-way will be secured within the next 30 days and work will begin by Aug. 1. The first surveying will be done as soon as the right-of-way is secured. The line will start at El Reno and extend in the most direct route to Oklahoma City, through Yukon and Dixon. From Oklahoma City the line will extend through McCloud, and on to Shawnee. Noted on May 7.

SEATTLE, WASH.—The Seattle, Snohomish & Everett Ry. Co. will build an electric railway from Seattle to Everett, Wash., 30 miles, via Bothell and Snohomish. Right-of-way is now being secured for the section from Seattle to Everett and contracts are to be let soon. It has not yet been decided whether to build an independent line into the city of Seattle or to connect with the Seattle Electric Co.'s line. C. M. Kimball is an incorporator, Seattle. Noted on May 7.

ASTORIA, ORE.—F. L. Evans is interested in project to build an electric railway from Astoria to Tillamook. Company will be known as the Astoria, Seaside & Tillamook Ry. Co.

PORTLAND, ORE.—The United Railways Co. has been granted a 25-year franchise for its interurban line from Portland to Hillsboro. A. C. Emmons, of Portland, is Secy.

SAN JOSE, CAL.—The City Council has granted the San Jose & Santa Clara R. R. Co. an extension of one year in which to complete and put in operation an electric street railway on portions of several streets. L. E. Hanchett is Pres. and Gen. Mgr.

## LIGHT AND POWER PLANTS.

*(* denotes that this work is advertised in Engineering News.)*

*BOSTON, MASS.—Bids are asked by Guy C. Emerson, Supt. of Streets, City Hall, until noon, July 1, for lighting with gas and naphtha incandescent mantle burners on certain streets, parks and alleys, for a period of five years from Aug. 1, 1908.

SHELBURNE FALLS, MASS.—Wilcox & Halligan, proprietors of the local electric light plant, have applied for permission to incorporate. It is proposed to erect a larger plant and to supply electricity for motors as well as lamps.

MARION, MASS.—The Marion Gas Co. has decided to install electric service in connection with its gas business. The capital stock of the company will be increased and further arrangements made later.

YARDLEY, PA.—Plans are being considered by the New Jersey & Pennsylvania Traction Co. for improvements to its system, which will involve an expenditure of about $100,000. It is proposed to enlarge the power-house at Yardley to furnish additional energy required for the system. John G. Honecker, Trenton, N. J., is Gen. Mgr.

HUNTINGDON, PA.—Plans for the second hydro-electric dam and power plant along the Juniata River have been completed by the Juniata Water & Water-Power Co., now operating the plant in Warrior Ridge Gap, above Huntingdon, and furnishing Huntingdon, Tyrone and Altoona with electric current for lighting and power purposes. The company will commence the extension of the steel tower transmission system from the Warrior Ridge plant through Huntingdon to Lewistown. The proposed plant will be built between Huntingdon and Lewistown and will feed into the transmission line to be extended to that place, making a complete line from Altoona through the Juniata Valley by way of Huntingdon. In addition to the second dam and the extension of the transmission line, three hydro-electric plants at various points along the Juniata River and its tributaries probably will be constructed, all of which will feed into the main transmission line and form a multiple system of hydraulic power electric current. S. L. Brumbaugh, Huntingdon, is interested.

CONOWINGO, MD.—We are officially advised that the Susquehanna Power Co. intends to build a water power plant here. The company proposes to erect a dam across the Susquehanna River, build a power-house and construct a canal. James H. Harlow, Darlington, Md., is Des. Engr.

WASHINGTON, D. C.—The following bids were received on May 2 by the Paymaster-General of the Navy (Schedule 1034, class 131): Item 1 is for entire quantity of lamps on a basis of 250,000 and Item 2 for the entire quantity on a basis of 100,000: Commercial Electric Supply Co., 15th and Pine Sts., St. Louis, Mo., (1) $51,659, (2) $53,-799; Consolidated Electric Lamp Co., Danvers, Mass., (1) for part of the lamps called for only, $8,806; Columbia Incandescent Lamp Co., 2115 Locust St., St. Louis, Mo., (1) $50,631, (2) $53,586; Fostoria Incandescent Lamp Co., Fostoria, Ohio, (1) $50,631; Franklin Electric Mfg. Co., 83 Woodbine St., Hartford, Conn., (1) $50,832; General Electric Co., Schenectady, N. Y., (1) $50,835; Hudson Electrical Supply Co., 54 Warren St., New York, (1) $50,832; H. W. Johns-Manville Co., 100 William St., New York, (1) $50,835; Lee Electric Co., Baltimore, Md., (1) $50,662, (2) $53,801; New York & Ohio Co., Warren, Ohio, (1) $50,835; Sterling Electric Mfg. Co., Warren, Ohio, (1) $50,-631; Walker & Keplar, 531 Chestnut St., Philadelphia, Pa., (1) $50,832, (2) $53,799; Western Electric Co., 463 West St., New York, (1) $50,835; Westinghouse Lamp Co., Baltimore, Md., (1) $50,835.

SPARTANBURG, S. C.—The Electric Power & Mfg. Co. has awarded contract to EDWARD DEARMAN, of Lynchburg, S. C., for erecting a brick distributing plant building, to cost about $6,000.

CARROLTON, MISS.—Bids are asked by the Board of Aldermen until June 15 to rebuild the Carrollton electric plant. The Carrollton Electric Co. will dispose of all the fire-damaged machinery and install new machinery throughout. B. F. Roach is Mgr.

CHILLICOTHE, OHIO.—The water power of Paint Creek will be utilized to generate electricity which will be transmitted to Cincinnati, Springfield, Dayton, Columbus, Chillicothe and other cities within a radius of 175 miles. The main power plant and distributing point will be located at Alum Cliffs, where a 90-ft. dam is to be constructed. H. M. Redd is City Engr.

BUCYRUS, OHIO.—F. H. Froehlich, of Toledo, Ohio, Consult. Engr., has been engaged by the city to take charge of the establishment of a municipal electric light plant. The city has two plans under consideration, one the construction of a plant to be owned by the municipality and the other involving the sale of a franchise to a private corporation. Mr. Froehlich has prepared the plans for the proposed municipal electric light plant and in case the plant is to be built will have charge of the construction.

WAUSAU, WIS.—We are officially advised that the Wausau Street Ry. Co. will receive bids for rock excavation, masonry, concrete and power-house construction at Wausau. The Knox Engineering Co., Fisher Bldg., Chicago, Ill., is Engr.

FERGUS FALLS, MINN.—The UNION ENGINEERING & CONSTRUCTION CO., of Chicago, Ill., has been awarded the contract for completing the concrete dam and power-house for the municipal electric light plant. The company submitted the only bid, in which it offered to complete the work, without the machinery, for $40,000 and to allow the city $2,000 for the present power-house and machinery, making a net bid of $38,000. J. W. Peterson, Fergus Falls, is Supt.

TOPEKA, KAN.—The Board of Trustees has decided to install an entire new steam plant in the municipal electric light plant. The present plans provide for a new set of boilers, a water purifier, a steel stack about 100 ft. high, with rearrangement of some of the pole lines. New lamps will be purchased. The plant will be built to provide for 500 lamps. As yet it has not been decided whether new generators will be purchased. The cost of improvements is estimated at about $35,000. H. K. Goodrich, Topeka, is Supt.

MISSOULA, MONT.—J. H. Kennedy, Arch., Missoula, has completed plans for the carpenter work to be done in connection with the proposed plant of the Missoula Gas Co.

ARCOLA, MO.—The Kansas City & Springfield Southern Ry. Co. will erect a power station here. C. C. McFann, Nevada, Mo., is Gen. Mgr.

LITTLE ROCK, ARK.—Plans will be prepared by J. W. Bleidt, City Engr., for a power plant capable of supplying 50 arc lamps. A 450-HP. steam turbine will be installed. Estimated cost, $40,000.

TAYLOR, TEX.—The Citizens' Light & Power Co., T. W. Marse, President, which succeeds Taylor Electric Light Co., has awarded contract for brick and stone work on building it will erect to L. M. LEE, and for wood work to S. F. EVERS & SON, both of Taylor. The structure will be 50 × 70 ft. and will cost about $5,000. Dynamos and other equipment, costing about $40,000, will be installed about Sept. 1.

HILLSBORO, TEX.—The city has granted a 20-year franchise to J. P. Tarr and Thomas Ivy to establish a plant to manufacture gas.

GALVESTON, TEX.—Bids are asked by John M. Murch, County Audr., Galveston, until June 8, for rewiring the Galveston County court-house and for installing arc lamps along Galveston County Boulevard.

OKLAHOMA CITY, OK[illegible]—It is stated that the Oklahoma Gas & [illegible] Co. will expend about $200,000 for [illegible] tric system and gas main[illegible] Oklahoma City, is Mgr.

WALLA WALLA, WAS[illegible] ton & Oregon Traction Co. [illegible] Washington of-way for a power-house [illegible] cured right-privileges on the south [illegible] and water Walla River and will build [illegible] the Walla soon. [illegible]-HP. plant

LOS ANGELES, CAL.—[illegible] 218 West First St., Los [illegible] LL BROS. cured the contract from th[illegible] have se visors for installing a hea[illegible] ity Super in new annex to county j[illegible] lower plant $19,744.

SANTA CRUZ, CAL.—T[illegible] Lumber Co. will establish [illegible] Vincente here. M. H. Grover is Mgr. [illegible] wer plant

SAUSALITO, CAL.—We [illegible] vised that the Marin Coun[illegible] ficially ad erect a plant here, to co[illegible] Co. will Gas will be produced from [illegible] $100,000 for cooking and heating p[illegible] petroleum pally. The following equipm[illegible], princi Boilers, engines, steam pump[illegible] required compressors, a 50,000-cu. ft. [illegible] wers, gas about 30 miles of w.-i. pi[illegible] holder and Greer, F. Blair Turpin, W.[illegible] Robert P. gar D. Plexotto, and C. Tar[illegible] Hay, Ed Charles P. Grimwood & Co., [illegible] Bros. Bldg., San Fancisco Cal., are [illegible] Monadnock will be received about July 1. [illegible] ers. Bids

MINIDOKA, IDAHO.—Bids [illegible] asked at the office of the U. S. Reclama[illegible] Service, 777 Federal Bldg., Chicago, [illegible] until 10 a. m., June 24, for furnishing [illegible] trical ap paratus for the Minidoka Project, Idaho. O. H. Ensign, is Ch. Electrical Engr., 3 Carroll Block, Madison, Wis. F. H. Newell, Dir. Specifications are on file at the office of Engineering News, New York. On May 21 it was erroneously stated that bids were asked until June 19.

TORONTO, ONT.—It is stated that the Toronto Electric Light Co. will erect a sub-station at the corner of Tecumseh and Defoe Sts. J. J. Wright, Toronto, is Gen. Mgr.

PRINCE ALBERT, SASK.—The city will replace the present electric lights with arc lights. It is proposed to turn the old electric light plant into a power-house for a municipally owned electric street railway. F. A. Creighton is City Engr.

## BRIDGES.

HARTFORD, CONN.—Bids are asked by the Board of Contract and Supply until 11 a. m., June 8, for furnishing and erecting 260 lin. ft. of hand-rail at the Broad St. bridge.

NEW YORK, N. Y.—The following bids were opened on May 21 at the office of J. W. Stevenson, Comr. of Bridges, for constructing railings on footwalks and lower floor and ornamental work on four towers of the Blackwell's Island Bridge over the East River, between the Boroughs of Manhattan and Queens: Charles Meads Co., 299 Broadway, $184,184; McHarg-Barton Co., 165 Broadway, $222,000; H. H. Uris Iron Works, 525 West 26th St., $174,000; Maryland Steel Co., 71 Broadway, $205,880; Vulcan Rail & Construction Co., North 9th St., Brooklyn, $200,884; Hecla Iron Works, 118 North 11th St., Brooklyn, $314,200; NORTHEASTERN CONSTRUCTION CO., 225 Fifth Ave., $155,821 (awarded contract); J. H. Gray & Co., 2nd St. and Broadway, $208,000.

*OSWEGO, N. Y.—We are officially advised that the contract for the construction of a bridge across the Oswego River on the line of Utica St. has been awarded by the city to S. W. BOWLES, 314 Madison Ave., New York, at $54,750. John Smith is Comr.

NEWARK, N. J.—The Board of County Freeholders rejected all bids received May 11, for constructing a bridge on Glenn Ave., Millburn, N. J., and have ordered the County Engineer to prepare new plans for a steel beam structure.

WILLIAMSPORT, PA.—Bids are asked until noon, June 9, by the County Commissioners, Frank L. Miller, Clk., for constructing three concrete-steel bridges and two stone-arch bridges.

WORMLEYSBURG, PA.—The HATFIELD & HYDE CO., West Fairview, Pa., have been awarded the contract for the construction of a section of state road and new bridge near Wormleysburg.

BLOOMSBURG, PA.—Bids are asked until 10 a. m., June 9, by the County Commissioners for constructing three steel beam bridges. Bruce Black is Clk. Comrs.

WASHINGTON, PA.—Bids are asked until June 5 by the State Highway Department, Harrisburg, Pa., for the construction of a reinforced concrete viaduct on the National pike in Washington County. J. W. Hunter is Comr.

HARRISBURG, PA.—The County Commissioners on May 22 awarded the contract for the construction of the 19th St. bridge over Spring Creek to HENRY and WILLIAM H. OPPERMAN at $7,400. The contract calls for the completion of the bridge in nine weeks and work will be started at once.

BEAVER, PA.—The Pittsburg & Lake Erie R. R. Co. on May 26 awarded to the McCLINTICK-MARSHALL CONSTRUCTION CO., Park Bldg., Pittsburg, Pa., the contract for 13,500 tons of steel superstructure to be used in the erection of the bridge over the Ohio River here at about $1,000,000. This company will divide contract with the JONES & LAUGHLIN CO., and the Carnegie Steel Co.

BEAVER, PA.—The contract for constructing the county bridge over Stockton Run in Big Beaver Township, was awarded on May 26 by the County Commissioners to NOAH BAYLISS, of Beaver, at 25 cts. per cu. yd. for excavation; $4.64 per cu. yd. for concrete; and 70 cts. per lin. ft.

PITTSBURG, PA.—Bids are asked until noon, June 12, by F. P. Booth, County Controller, Pittsburg, for the superstructures and masonry of two through-plate girder bridges.

NORFOLK, VA.—The Council has appropriated $[illegible],000 for the construction of a concrete bridge on Lovitt Ave.

DURHAM, N. C.—The Durham County Commissioners have awarded the contract to the CAROLINA CONSTRUCTION CO., Burlington, N. C., for the construction of seven reinforced concrete bridges, 200 ft., 75 ft., and five from 15 to 20 ft. in length, at about $[illegible],000.

PIKEVILLE, KY.—Contracts for the construction of the iron bridge across the Levisa fork of the Big Sandy River at Pikeville have been awarded as follows: To GEORGE S. BOCK & SONS, of Coshocton, Ohio, cement work at $5.84 per cu. yd.; CHAMPION IRON CO., Kenton, Ohio, for steel work at $11,950. The shore spans are to be [illegible] ft. and channel span 202 ft.

HAMILTON, OHIO.—Bids are asked until 10 a. m. June 11, by J. E. Brate, County Audr., for repairing the west abutment of the bridge over Seven Mile Creek, Milford Township.

CINCINNATI, OHIO.—Bids are asked until noon, June 26, by the County Commissioners of Hamilton and Clermont Counties for the construction of the steel superstructure of a highway bridge over the Little Miami River on the Montauk road between Camp Dennison in Symmes Township, Hamilton County, and Miamiville, Clermont County. Fred Dreihs is Clk. Bd. Comrs. of Hamilton County.

LISBON, OHIO.—The County Commissioners on May 18 awarded to U. V. GASKILL the contract for the construction of two steel bridges and for furnishing steel bridge beams.

Bids are asked until 1 p. m., June 6, by the County Commissioners for the construction of a bridge 103 ft. long near West Beaver Church.

LORAIN, OHIO.—Bids are asked until 1 p. m., June 8, by the County Commissioners of Lorain County for the construction of stone masonry for the substructure of the Garfield bridge over Black River, Sheffield Township. Charles Chandler is Clk., Comrs.

FINDLAY, OHIO.—Bids are asked until noon, June 27, by the County Commissioners of Hancock County for the construction and completion of the substructure of a steel bridge over the Blanchard River in Delaware Township. John A. Sutton is County Audr.

TOLEDO, OHIO.—The ROHMHELD CONSTRUCTION CO., 171 La Salle St., Chicago, Ill., has been awarded the contract for the construction of a steel bridge over Swan Creek, Toledo, for the Ohio Electric Co. at about $25,000.

*JACKSON, OHIO.—Bids are asked until 1 p. m., June 17, by Ed. Monahan, County Surv., Jackson County, for the construction of seven reinforced concrete bridges, containing 370 cu. yds., and 72-ft. span steel bridge, containing 130 cu. yds.

WINCHESTER, IND.—The County Commissioners have awarded contracts to the INDIANA BRIDGE CO., of Muncie, Ind., for the construction of 15 bridges and culverts in Randolph County, at about $8,700.

KENTLAND, IND.—Bids are asked by the Commissioners of Newton County until 1 p. m., June 11, for the construction of eleven bridges, concrete abutments and crushed stone, screenings, gravel and cement for repair of macadamized roads. Alonzo E. Purkey is County Audr.

FORT WAYNE, IND.—The NATIONAL BRIDGE CO., Indianapolis, Ind., has been awarded the contract by the County Commissioners for the construction of a reinforced-concrete bridge, 200 ft. span, over St. Mary's River on Clinton st. at $26,750. List of bidders noted last week.

ALBION, MICH.—The City Council has awarded the contract to the ALBION LUMBER CO., of Albion, for the construction of a 2-span steel girder bridge on Superior St., at $16,381.

KILBOURN, IOWA.—Bids are asked by the Board of Supervisors at the office of E. H. Ruby, County Audr., Keosauqua, Iowa, until June 11 for furnishing the material and constructing a highway bridge over the Des Moines River at Kilbourn.

SALINA, KAN.—Bids are asked until June 16 by the County Commissioners for the construction of two bridges across Mulberry and Gypsum Creeks in Glendale and Eureka Townships. The structures will be 90 and 70 ft. long.

COLUMBUS, MONT.—THE SECURITY BRIDGE CO., Minneapolis, Minn., has been awarded the contract by the county for the construction of a bridge over the Yellowstone River here, at $19,750.

MARLIN, TEX.—We are officially advised that John Wharton Maxcy, 204 Binz Bldg., Houston, Tex., has been engaged by the Commissioners Court of Falls County to design a steel highway bridge across the Brazos River near here, to replace the one recently washed away. Estimated cost, $55,000.

PUEBLO, COLO.—The following bids were opened on May 11, for the reconstruction of the burned section of the C St. viaduct: Wichita Construction Co., $16,000; Pueblo Bridge Co., Pueblo, Colo., $15,685; M. F. Levey Construction Co., Symes Bldg., Denver, Colo., $15,900; Alexander Campbell, $17,150.

SPOKANE, WASH.—Bids are asked until 2 p. m., June 10, by the Board of Public Works for the improvement of Sprague Ave. from the west line of Ivory St. to a point 785 ft. westerly. The improvement contemplates one of the four following plans: (1) A steel girder viaduct, supported on tower bends; (2) a reinforced-concrete viaduct; (3) reinforced-concrete retaining walls with earth or rock fill; (4) dry retaining walls with rock fill. J. T. O'Brien is Secy. Bd.

EUGENE, ORE.—Bids are asked until 2 p. m., June 4, by the County Court of Lane County for the construction of a 50-ft. span bridge, Howe-Truss, across Edward's Slough on County road No. 12. E. V. Lee is County Clk.

UKIAH, CAL.—Bids are asked until 7.30 p. m., June 12, by J. R. Adams, City Clk., for constructing a bridge across Russian River, at what is known as the lower ford, near the John Sachs place, in the lower end of Potter Valley.

LANE, IDAHO.—CARSCALLEN BROS., Coeur d'Alene, Idaho, have been awarded the contract at $7,450, for constructing a steel bridge over the Coeur d'Alene River here.

KAMIAH, IDAHO.—Bids will be asked for soon by the Kamiah Bridge Co. for constructing a bridge across Clearwater River. Estimated cost, $12,000. Charles Thompson, of Omaha, Neb., is Engr.

TORONTO, ONT.—The Temiskaming & Northern Ontario Ry. Commission has awarded to DEMENS & FRASER, of New Hamburg, Ont., the contract for the construction of several concrete culverts and abutments.

MOOSEJAW, SASK.—Bids are asked by F. J. Bobinson, Deputy Minister of Pub. Wks., Regina, Sask., until 4.30 p. m., June 8, for the construction of two concrete abutments for the bridge over Moosejaw Creek. Plans and specifications may be seen here, and also at the Department of Public Works, Regina.

OXBOW, SASK.—GEORGE H. ARCHIBALD & CO., Union Bank Bldg., Winnipeg, Man., have been awarded the contract for the construction of a concrete culvert 275 ft. long across the Oxbow River here, at $100,000.

## BUILDINGS.

*(* denotes that this work is advertised in Engineering News.)*

NORTHFIELD, MASS.—Contract has been let by Parish & Schroeder, Archs., 5 West 31st St., New York, to H. WALES LINES, 134 State St., Meriden, Conn., for a 1-story and basement dining hall for Mount Hermon Boys' School, Northfield. Cost, $100,000.

NEW BEDFORD, MASS.—Bids are asked until June 10 by W. H. B. Remington, Clerk Com. on City Property, for furnishing material, and erecting an addition, and making certain changes to the present Public Library building for use as a municipal office building. Amount appropriated, $250,000. Samuel C. Hunt is Arch., Odd Fellows' Bldg., New Bedford.

*ALBANY, N. Y.—Bids are asked by the State Commission in Lunacy, T. E. McGarr, Albany, until 3 p. m., June 24, for hydrotherapeutic and prolonged bath equipment and construction for Utica, Poughkeepsie and Binghamton State Hospital.

*ALBANY, N. Y.—The date for receiving bids has been changed by the Trustees of Public Buildings, Capitol, from June 2 to June 22, for constructing the N. Y. State Education Building on Washington St. Robert H. Fuller, Secy. Palmer & Hornbostel, Archs., 63 William St., New York City.

BUFFALO, N. Y.—The Enos & Anderson Co. will erect a 3-story brick warehouse 105 × 200 ft., at 121 Swan St. Colson & Hudson, 35 Dun Bldg., Buffalo, are Archs.

The Merchants' & Shippers' Warehouse Co. will build two storage warehouses at East Buffalo, of reinforced concrete, 110 × 186 ft., and 60 × 150 ft., respectively and three stories in height. Bids will be received by George B. Shane, 308 Bourse Bldg., Philadelphia, Pa.

J. C. Henkel, of Corning, N. Y., has had plans prepared and will receive bids for a 3-story brick business block, 100 × 75 ft., which he is to erect in this city. The cost will be approximately $50,000.

NEW YORK, N. Y.—In the United States Circuit Court on May 20 Judge Lacombe issued an order authorizing Frederick W. Whitridge as receiver of the Third Avenue R. R. Co., 42d St., Manhattanville & St. Nicholas Ave. Ry. Co., the Dry Dock, East Broadway & Battery R. R. Co., and the Union St. Ry. Co., to issue receiver's certificates to an amount not to exceed $2,500,000. For the improvement of property and service of the Third Avenue R. R. Co. the following expenditures will be made on buildings: $135,000 for sprinkling and other fire apparatus and their installation at the company's barns; $151,000 for alterations and repairs to building at 65th St. and 3d Ave., $100 for alterations and repairs to building at 129th St. and Third Ave.; $4,000 for repairs to building at 177 Manhattan St.; $255,000 for erection of car barn for storage and repairing cars in Pelham; $109,000 for repairs to Bayard St., 129th St. and 65th St. subway stations.

Bids are asked until 2.30 p. m., June 11, by Robert W. Hebberd, Comr. of Public Charities, for the erection and entire completion of a new male dormitory at the New York City Farm Colony, Boro. of Richmond.

The Empire Circuit Co., 1402 Broadway, New York, will build a theater of the cantilever type at Flatbush Ave. and State St., Brooklyn. The contract has been awarded to Cramp & Co., Commonwealth Bldg., Philadelphia. It will cost more than $225,000, and is to be fireproof. The theater will have a seating capacity of 2,000, and it is expected to be opened early next year.

NEW YORK, N. Y.—The following bids were received on June 1 by John F. Ahearn, Pres. Boro. of Manhattan, for repairs and alterations to City Court-House (Brownstone building), City Hall Park, Chambers St.: H. H. Vough & Co., 42 West 42d St., $63,893; P. J. Brennan & Son, Fuller Bldg., $55,000; Charles Meads, 299 Broadway, $64,146; Neptune B. Smyth, 1123 Broadway, $53,989; Geo. Vassar & Co., 1170 Broadway, $63,354 (informal).

The following bids were received on June 1 by C. B. J. Snyder, Supt. School Bldgs., Dept. of Education: For the general construction, etc., of additions to and alterations in Public School No. 128, on the northerly side of 21st Ave., between 83d and 84th Sts., Boro. of Brooklyn: John Kennedy & Son, 1133 Broadway, $122,000; Peter Guthy, 924 Broadway, Brooklyn, $119,839; James McArthur, 22 Ormonde Pl., Brooklyn, $118,500; George Driscoll, 548 Union St., Brooklyn, $117,700; Harry Berry & Co., 101 West 66th St., $128,000; Thomas McKeown, 510 West 110th St., $124,423; John Auer & Son, 648 Lexington Ave., Brooklyn, $125,124; William Werner, 892 Forest Ave., $128,987; John Kennedy & Co., 1133 Broadway, $131,000; Orman & O'Brien, $120,583; John F. Rielly, $124,888; Wm. H. Luth & Co., 640 Sterling Pl., Brooklyn, $124,000; Richard E. Henningham, 1 Madison Ave., $119,234; Charles Cranford, 52 Ninth Ave., Brooklyn, $123,700.

The following bids were received June 1, by C. B. J. Snyder, Supt. School Bldgs., Dept. of Education, for the general construction, etc., of new Public School No. 162, on the northerly side of St. Nicholas Ave., between Willoughby Ave. and Suydam St., Boro. of Brooklyn: P. J. Brennan & Son, Fuller Bldg., $288,000; John Kennedy & Son, 1133 Broadway, $283,000; Peter Guthy, 924 Broadway, Brooklyn, $274,969; Clark & Stowe, 221 Greenpoint Ave., Brooklyn, $272,300; Wilmarth Building Co., $279,646; William J. Moran, Inc., $266,615; James McArthur, 22 Ormonde Pl., Brooklyn, $281,300; George F. Driscoll, 548 Union St., Brooklyn, $269,800; Harry Berry & Co., 101 West 66th St., $289,000; Thomas McKeown, 510 West 110th St., $279,700; Bottsford Dickinson & Co., 1123 Broadway, $272,980; John Auer & Sons, 648 Lexington Ave., Brooklyn, $268,995; William Werner, 892 Forest Ave., $286,118; John Kennedy & Son, 1133 Broadway, $282,000; Patrick Gallagher, 1181 Broadway, $257,900; George Hildebrand, 38 Park Row, $285,300.

The following bids were received at the same time for installing heating and ventilating apparatus in new Public School No. 156, on Sutter Ave., Grafton and Barrett Sts., Boro. of Brooklyn: Frank Dobson & Co., Inc., 319 East 53d St., $55,767; E. Rutzler & Co., 127 White St., $57,570; Baldwin Engineering Co., 107 West 17th St., $54,932; James Curran Mfg. Co., 512 West 36th St., $55,600; Blake & Williams, 211 West 20th St., $60,728.

NEW YORK, N. Y.—Bids are asked until 2.30 p. m., June 15, by Robert W. Hebberd, Comr. of Public Charities, for the excavation, masonry, steel and iron work, roofing and metal work, carpentry, electric work, heating and ventilating work, plumbing work and all other work (except certain kitchen, sterilizing and lighting fixtures, refrigerators and vacuum sweeping machinery), as set forth in the drawings and specifications for the construction and entire completion of a staff house, and the extension of two tuberculosis infirmaries, for the Metropolitan Hospital District, Blackwells Island, Borough of Manhattan, the City of New York.

Bids are asked by C. B. J. Snyder, Supt. of School Bldgs., Dept. of Education, until 11 a. m., June 15, for the general construction, etc., of additions to and alterations in Public School No. 126, on the north side of Meserole Ave., between Lorimer and Guernsey Sts., Boro. of Brooklyn; for alterations, repairs, etc., at Public Schools Nos. 2, 3, 4, 9, 18, 20, 23, 25, 27, 28, 29, 30, 31, 35, 37, 38, 39, 40, 42 and Morris High School, Boro. of the Bronx; for repairs to heating and ventilating apparatus of Public Schools Nos. 16, 48, 54, 67, 93, 141, 165, 166, High School of Commerce and De Witt Clinton High School, Boro. of Manhattan; for the erection of outside iron stairs at Public School No. 130, at 143 Baxter St., Boro. of Manhattan; for alterations, repairs, etc., at Public Schools Nos. 39, 42, 43 and 44, Boro. of Queens; for the general construction, etc., of additions to and alterations in Public School No. 87, on west side of Dry Harbor Road (Washington Ave.), between Pulaski and Wayne (Lafayette) Sts., Middle Village, Boro. of Queens.

*FORT WOOD (New York post-office), N. Y.—Bids are asked by Lt. William W. Bessell, Q. M., until 1.30 p. m., June 22, for constructing poison closet and shelves and interior painting in hospital at this post.

MIDDLETOWN, N. Y.—We are officially advised that contract for constructing the Nurses' Home at the Middletown State Hospital, Middletown, has been let to MOSIER & SUMMERS, Main and Kensington Sts., Buffalo, N. Y. A complete list of the bids received on May 14 by the State Lunacy Commission, T. E. McGarr, Secy., was given in Engineering News on May 21.

*WEST POINT, N. Y.—Bids are asked until noon, July 3, by the Quartermaster, West Point, for erection at West Point, N. Y., of gymnasium, chapel, chaplain's quarters, officers' quarters and battalion guardhouse.

ELIZABETH, N. J.—We are officially advised that bids will be received at once for a 3-story brick school, with stone trimmings, 95 × 123 ft., to be built here for the Board of Education. The building will cost $100,000; equipment, $10,000. C. S. Adams, 1233 Arch St., Philadelphia, is Arch.

PITTSBURG, PA.—Charles Bickel, Arch., 523 Penn Ave., has plans ready for bids for the erection of a 12-story store and office building to be put up on the Magee Estate lot in Liberty Ave. The intention is to begin the construction as soon as possible. It is to cost approximately $200,000. The structure will be fireproof, the exterior to be stone, brick and terra cotta. It will be erected at the corner of Fifth Ave. and will extend to Exchange Alley, covering 30 × 112½ ft. The first floor will be fitted up for store purposes, the second to sixth floors will be arranged for tenants, and the floors above will be given over to offices. It will have passenger elevators in front and freight elevators on Exchange Alley.

SHARON, PA.—Bids are asked until 3 p. m., July 14, by James Knox Taylor, Supervy. Arch., Treasury Dept., Washington, D. C., for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. post-office at Sharon.

BALTIMORE, MD.—The Johns Hopkins Hospital Trustees will erect at the corner of South and Water Sts., a 5-story brick and reinforced concrete office building, which will cost $70,000. It will be 108.6 × 64 ft. Baldwin & Pennington are Archs., Professional Bldg. This item was erroneously reported last week under Boston, Mass.

Guy King, 1513 Walnut St., Philadelphia, Pa., has prepared plans for a residence to be erected for E. P. Baugh, of Philadelphia, on the Severn River, at Revell's Station, the cost to be about $150,000.

WASHINGTON, D. C.—G. P. Eustis, Arlington Hotel, Vermont Ave. and H St., N. W., is having plans prepared for a structure to cost $2,500,000 and to replace the Arlington Hotel.

Bids were received as follows May 27 at the office of Elliott Woods, Supt. of the U. S. Capitol Bldg. and Grounds, Washington, D. C., for the ornamental and plain plastering in the Senate Office Building, Washington, D. C.: H. W. Minor, New York, (a) using American cement, $129,979; (b) using imported cement, $133,651. Murray Bros., Washington, (a) $148,800, (b) $150,000. Edward Middleton, Chamber of Commerce Bldg., Chicago, (a) $124,800, (b) $133,700; Milton C. Davis, 5 Hopkins Pl., Baltimore, Md., (a) $119,900, (b) $122,000; McNulty Bros., 549 West 52d St., New York, (a) $115,000, (b) $123,500; J. C. Vreeland Building Co., 1 Madison Ave., New York, (a) $158,000, (b) $165,000. Bids were opened for furnishing racks for cables, the only bidder being Allerence Stone Co., New York, at $10,000.

WASHINGTON, D. C.—George W. Stone, 1753 Park Road, N. W., has prepared plans for a brick and stone church to be built for the Immanuel Baptist Congregation. Bids will be received for the stone facing, steel work and fittings. Percy S. Foster is Chn. Bldg. Com., 1327 F St., N. W. Cost, $125,000.

Bids are asked by Elliott Woods, Supt. U. S. Capitol Bldg. and Grounds, until noon, June 10, for interior marble work in office building, U. S. Senate.

RICHMOND, VA.—The Commission on Addition and Improvement to the Library Building and Capitol Building and Grounds will receive the following bids until June 16 (postponement from May 25): Plans for an addition and improvement to the library building to cost not more than $85,000; bids for repairing the porticos and rendering same waterproof, also repairing where necessary the stucco on the entire Capitol Building; bids for three sets of stone steps for the Capitol grounds. Claude A. Swanson is Chn.; George P. Mundy is Secy.

WHEELING, W. VA.—The following contracts have been awarded by Giesey & Faris, Archs., Schmulbach Bldg., for the proposed Y. M. C. A. building: N. C. HAMILTON & SONS and T. W. JACKSON, brick and stone work; W. W. WOOD CO., wood work and plastering; RIVERSIDE BRIDGE CO., structural steel work. Contracts for plumbing and other work will not be awarded until after the completion of the work on the above contracts. The cost of the building will not exceed $100,000.

GREENVILLE, N. C.—Bids are asked until June 9 by the Executive Committee of East Carolina Teachers' Training School for erecting four buildings as follows: Administration building, two dormitories and the refectory; probable total cost, $150,000. Hook & Rogers are Archs., Charlotte; H. W. Simpson is Associate Arch., Newbern, N. C. T. J. Jarvis is Chn. Com.

ATLANTA, GA.—The Wesley Memorial Church adopted plans by George C. Thompson, Arch., Chandler Bldg., Atlanta, for a church, 142 × 94 ft., four stories and basement, with granite foundations, reddish-brown brick; cream terra cotta trimmings; 8-ft. passageway around two sides and two elevators. The first and second floors will contain auditorium, with seating capacity of 3,000. Sunday-school rooms, etc. $200,000 is available. Asa G. Candler, Edgewood Ave., is Chn. Bldg. Com.

JACKSONVILLE, FLA.—We are officially advised that the TURNER CONSTRUCTION CO., 11 Broadway, New York, N. Y., has been awarded an additional contract for the construction of a reinforced concrete storage warehouse for the J. G. Christopher Co. at Bay and Liberty Sts., Jacksonville. This building will be 157.6 × 110 ft. It will have three stories and basement.

PENSACOLA, FLA.—We are officially advised that estimates will be taken at once for constructing a 10-story bank and office building, 60 × 90 ft., for the American Safe Deposit Co. Estimated cost, $200,000. Carpenter, Blair & Gould, 475 Fifth Ave., New York, N. Y., are Archs. Noted on May 14.

MOUNT VERNON, OHIO.—Frank L. Packard, Arch. New Hayden Bldg., Columbus, Ohio, has completed plans for two 2-story reception cottages, two 2-story pavilions and one 1-story employees' building, to be built at Mount Vernon, for the Ohio State Tuberculosis Commission. Total cost, $135,000.

MADISONVILLE, OHIO.—The following contracts have been let by Bausmith & Drainie, Johnston Bldg., Cincinnati, for constructing a 3-story brick H-shaped school building, 72 × 110 ft., with wings, 42 × 140 ft., for the Board of Education, Madisonville, to cost $125,000: Lathing and plastering contract to A. COLTER, Builders' Exchange; carpentry to COTTERAL BUILDING CO., Allen Bldg.; plumbing and gas piping to HENRY NIEMES, Thoms Bldg., and concrete work to ROOS BROS., 131 Parker St., all of Cincinnati. J. F. Klein is Clk. of Bd.

*MASSILLON, OHIO.—Bids are asked until noon June 29, by the Board of Public Service for constructing a city hall, 70 × 120 ft., three stories high. G. G. Paul is Secy.; J. M. Bostick is Arch., Canton, Ohio.

*SPRINGFIELD, OHIO.—Bids are asked until 3 p. m., July 9, by James Knox Taylor, Supervy. Arch., Treasury Dept., Washington, D. C., for construction complete of an extension to the U. S. post-office at Springfield.

FRENCH LICK, IND.—W. H. Floyd, Arch., 656½ Wabash Ave., Terre Haute, is preparing plans for a 6-story hotel for the French Lick Springs Hotel Co., French Lick. Estimated cost, $300,000.

FRANKFORT, IND.—J. B. Merifield is having plans prepared for an office building to be erected in this city. Bids will be asked about June 6.

DETROIT, MICH.—George D. Mason, Arch., 80 Griswold St., will let contracts about June 10 for a cathedral for St. Paul's Protestant Episcopal Congregation, Rev. S. S. Marquis, Rector. Cost, $100,000.

MILWAUKEE, WIS.—Hood & Tullgren, Archs., 86 Michigan St., Milwaukee, are preparing plans for a brick apartment house to be erected at Bellevew Pl. and Stowell Pl. by Thomas J. Neacy and Walter Reed. The building will cost about $80,000.

CHIPPEWA FALLS, WIS.—OTTO NEITGE, of Mankato, Minn., has secured the contract to erect a dormitory at the Feeble Minded School, at about $100,000.

KEOKUK, IOWA.—Plans are being prepared by H. E. Ratcliffe, Arch., Y. M. C. A. Bldg., for a 2-story school building, 80 × 180 ft., to be built here by the Board of Education. Bids will be received after July 1.

DULUTH, MINN.—D. H. Burnham & Co., Archs., 9 Jackson Blvd., Chicago, Ill., have awarded the following contracts for a county court-house to be built at the intersection of Fifth Ave. and Second St., Duluth, for the Commissioners of St. Louis County, 321 Providence Bldg., Duluth: General contract to LANDQUIST & ILLSLEY, 393 North Clark St.; plastering to the LENNOX-HALDEMAN CO., 184 La Salle St., both of Chicago, and plumbing to DOWNING & KRUSE, Milwaukee, Wis. Cost, $300,000.

**GRAND ISLAND, NEB.—Bids were received** as follows June 1 at the office of James Knox Taylor, Superv. Arch., Treas. Dept., Washington, D. C., for the construction of a post-office building at Grand Island, Neb.: Walter Peterson, Omaha, $121,737; R. Butke, Omaha, $116,000; F. P. Gould & Son, Omaha, $104,600; D. E. Marshall & Co., 2011 East Tenth St., Kansas City, Mo., $103,000; Northern Construction Co., Milwaukee, Wis., $106,881. Time, Dec. 31, 1909.

IOLA, KAN.—Bids are asked until 3 p. m., July 7, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. post-office at Iola.

WINFIELD, KAN.—P. H. Weathers, Arch., 319 Hall Bldg., Kansas City, Mo., is preparing plans and will receive bids for a stone court-house and jail for Cowley County. H. Abrams is County Clerk, Winfield, Kan. Cost, $95,000.

CHEYENNE, WYO.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., July 8, for finishing attic and miscellaneous work at the U. S. public building at Cheyenne.

*FORT D. A. RUSSELL, WYO.—Bids are asked by Capt. V. K. Hart, Acting Q. M., U. S. A., Cheyenne, Wyo., until 11 a. m., June 20, for construction of two pavilion ward wings and corridors to the Post Hospital now being constructed at Fort D. A. Russell.

ST. LOUIS, MO.—A 12-story apartment house, 120 × 167 ft., with stores on the ground floor, will be built by William O. Langan, 1823 Washington St. The building will contain one passenger and two freight elevators. Cost, $300,000.

KANSAS CITY, MO.—James W. Pennock, 1900 East Genesee St., Syracuse, N. Y., will erect office and business building in Kansas City, eight stories high, 24 × 130 ft., of steel and terra cotta, fronts of plate glass with terra-cotta trimmings. Louis Curtiss, 1112 McGee St., Kansas City, is Arch. Estimated cost, $100,000.

The following contracts have been let by Howe, Holt & Cutler, Archs., 315 East Tenth St., Kansas City, for constructing a 3-story and basement brick, stone and reinforced concrete hospital building, 60 × 225 ft., at 28th and Main Sts., for the Sisters of St. Mary: Mason contract to FLANAGAN BROS., Second and Lydia Sts.; carpentry to M. J. CASEY, 2114 Jefferson St., and steam heat to the COTTER McDONNELL PLUMBING & HEATING CO., 17th and Main Sts. Cost, $200,000.

LITTLE ROCK, ARK.—We are officially advised that the Little Rock Public Library Board, S. W. Reyburn, Secy., has awarded contract to W. R. STEWART, Little Rock, at about $70,000 for erection of Carnegie Public Library; to ROGOSKI PLUMBING CO., Little Rock, for heating apparatus, and to ELECTRIC CONSTRUCTION CO., Little Rock, for electrical work. The structure will be 122 × 65 ft., one story and basement, fireproof. Edward L. Tilton, 32 Broadway, New York, N. Y., prepared plans and Chas. L. Thompson, Arkansas Bldg., Little Rock, is Local Superintending Arch. Contract provides that construction begin at once and be completed within ten months.

PUEBLO, COLO.—Plans are being prepared and bids will be received about July 1 for construction of a 4-story court-house at Pueblo, for the Board of Commissioners of Pueblo County. Cost, $400,000. G. W. Roe, Grand Opera House Block, Pueblo, and Albert R. Ross, 542 Fifth Ave., New York, N. Y., are Archs.

LOS ANGELES, CAL.—F. O. ENGSTROM & CO., Temple and Spring Sts., Los Angeles, have contract to erect a 6-story building at 730 South Grand Ave. for George Walker. Eisen & Son, Wilcox Bldg., are Archs.

SAN FRANCISCO, CAL.—The Metropolitan Life Insurance Co. has applied to the Board of Public Works for permission to erect a 2-story and basement building to cost $169,738 at the corner of Pine and Stockton Sts.

Mary S. Merrill has applied for permission to erect a 6-story and basement building, to cost $70,000, at the corner of Kearny St. and Vermehr Pl.

The Southern Pacific Co. has applied for a permit to erect a new hospital, which is to be built at an estimated cost of $285,000, on the block bounded by Baker, Lyon, Hayes and Fell Sts. It will be a 3-story structure, the main building having a ground area 72 × 122 ft., and there will be an L 36 × 150 ft. The material will be brick and concrete. On the same block will be built a power-house 43 × 71 ft., designed to furnish the hospital with light and heat, the cost being covered by the amount already stated. D. J. Patterson is Arch.

MONTREAL, QUE.—MacVicar & Heriot, Archs., Temple Bldg., are preparing plans for an armory to be erected on Rachel St. at a cost of $90,000.

PORT ARTHUR, ONT.—Bids are asked by H. F. Cochrane, Minister of Provincial Public Works, Toronto, Ont., until noon, June 11, for alterations to the jails here and at Kenora and Sudbury. Plans and specifications may be seen at the Department, Toronto, and at the sheriff's offices at each of the towns named.

TORONTO, ONT.—Bids are asked by W. C. Wilkinson, Secy. & Treas, Bd. of Education, until noon, June 12, for addition to Leslie St. school, addition to Perth Ave. school, alterations to Wellesley school, heating and ventilating Lansdowne school, and for general midsummer repairs.

WINNIPEG, MAN.—Victor W. Horwood, Arch., 177 McDermott Ave., East, is preparing plans for a 70 × 50-ft. 3-story and high basement apartment block to be erected on River Ave. Cost, $80,000.

John D. Atcheson, Arch., Northern Bank Bldg., has prepared plans for a building for the Men's Own Association. Bids for construction will be called soon.

Smith & Bruce, Archs., have completed plans for the sanitarium to be erected by the Provincial Government. The building will be 500 ft. long and 160 ft. wide at the widest part. In the centre it will be four stories high. Hon. Robert Rogers is Minister of Public Works, Winnipeg.

REGINA, SASK.—Bids are asked by F. J. Robinson, Deputy Comr. of Public Works, until 4.30 p. m., June 22, for the erection and completion of Legislative and Executive buildings for the Province of Saskatchewan. Plans and specifications may be seen at the Department and at the offices of E. & W. S. Maxwell, Archs., 6 Beaver Hall Sq., Montreal, Que.

EDMONTON, ALTA.—Carl Bertch has decided to erect a theatre building here at a cost of about $90,000.

LETHBRIDGE, ALTA.—SMITH BROS. & WILSON, of this city, have been awarded the contract for the erection of the proposed school here. Cost, $83,000. Construction will begin at once.

## WATER SUPPLY—IRRIGATION.

*(* denotes that this work is advertised in Engineering News.)*

AUGUSTA, ME.—The contract for installing a complete water supply system at the State Muster Field has been awarded to the STEWARD HARDWARE & PLUMBING CO., of Skowhegan, Me.

SPRINGFIELD, MASS.—Specifications are on file at the office of Engineering News, New York, for the construction of a covered masonry reservoir on Provin Mountain, Little River Water Supply Contract No. 3. Bids are asked until 2 p. m., June 18.

NEWBURYPORT, MASS.—The contract for furnishing about 6,000 ft. of vitrified pipe for the Artichoke Water Supply system has been awarded by the Water Commissioners to A. P. WILSON. This pipe is to be used in connection with the filter beds at the Jackman ravine. The plan is to utilize the surface beds in summer or during the months in which there is no frost.

UNIONVILLE, CONN.—Bids are asked by W. A. Hitchcock, Treas. Unionville Water Co., until June 15, for the construction of a concrete and earthen reservoir dam, to be built at Unionville. T. H. McKenzie, Southington, Conn., is Engr.

NEW YORK, N. Y.—Bids are asked until 2 p. m., June 10, by John H. O'Brien, Comr. Water Supply, Gas and Electricity, for furnishing and laying water mains in Morningstar, Richmond, Old Stone and Amboy roads and Bridge Ave., Borough of Richmond; also for hauling and laying water mains in various streets of the Borough of Brooklyn; delivering c.-i. stop-cock boxes and covers, pipe, pipe fittings, valves, etc., and supplies for pumping stations, reservoirs and repair yards.

*NEW YORK, N. Y.—All bids for the construction of the Walkill pressure tunnel, being a portion of Walkill division of the Catskill aqueduct, crossing under the valley of the Walkill River, in the towns of New Paltz and Gardiner, Ulster County, New York, were rejected on May 28 by the Board of Water Supply. List of bidders noted on May 14.

*SCHENECTADY, N. Y.—Bids are asked by the Board of Contract and Supply until 2.30 p. m., June 24, for the machinery and fittings of the Ferry St. pumping station, consisting of one low-duty Deane and two high-duty Gaskill pumps with all piping and valves, and also four return tubular boilers. Harry F. Miller is Secy. Bd.

ROME, N. Y.—Specifications for furnishing about 3,745 tons of c.-i. water pipe and 12 tons of specials are on file at the office of Engineering News, New York. Bids are asked until June 10. Knight & Hopkins, Rome, are Engrs.

*NEW YORK, N. Y.—Bids were opened on June 2 by the Board of Water Supply for the construction of the Rondout siphon of the Catskill aqueduct. There were five bids for the work as follows: The Degnon Contracting Co., the T. A. Gillespie Co., 90 West St., New York; S. Pearson & Sons; the MacArthur Bros., 11 Pine St., New York; the Bradley Contracting Co., New York. There were seventy different items on which each firm bid. These will be tabulated. The work may cost about $5,314,000.

BRIDGETON, N. J.—The following are the bids opened on May 11 by the Water Commission of the Council for the construction of a reinforced concrete tank within the steel shell now standing on East Commerce St.: Cramp & Sons Co., Commonwealth Bldg., Philadelphia, Pa., $19,800; W. W. Lindsey, $20,870; Hettinger & Co., Bridgeton, $21,200; Schwiers & Sutton, $21,975; F. J. Bass, $22,400.

*ELIZABETH, N. J.—Bids are asked by the City Council until 8 p. m., July 1, for the construction of a pumping station. Plans and specifications may be examined at the office of the City Surveyor.

EASTON, PA.—The Belvidere Water Co. has awarded the contract for erecting a stand-pipe, 9 × 160 ft., to TIPPETT & WOOD, of Philipsburg, Pa., at about $6,000.

PARKERSBURG, W. VA.—The Water-Works Commissioner on May 21 awarded the contract to the PRESSLER ENGINEERING & CONTRACTING CO., of Cincinnati, Ohio, for drilling three test wells.

*ATLANTA, GA.—Bids are asked until 4 p. m., July 8, for three 300 HP. horizontal water tube boilers, working pressure 200 pounds. Park Woodward, Gen. Mgr. Bd. Water Comrs.

ATLANTA, GA.—Bids are asked until July 8 by the Board of Water Commissioners for three 300-HP. horizontal water tube boilers, working pressure 200 lbs., to be erected, bricked in complete on foundations furnished by the city at Hemphill Pumping Station, No. 2. Park Woodward is Gen. Mgr. Bd.

*COLUMBIA, MISS.—Bids are asked until 3 p. m., June 30, by the Mayor and Board of Aldermen for the construction of a complete water-works system. Xavier A. Kramer, Magnolia, Miss., is Engr.

*TOLEDO, OHIO.—Bids are asked until noon, July 7, by the Board of Public Service, for furnishing all the labor and materials necessary to complete a concrete intake pier, pipe, gate-house, etc., for the Toledo filtration works. Reynold Volt is Secy. Bd.

CANAL DOVER, OHIO.—The Board of Public Service on May 22 awarded the contracts for the extension of the water-works as follows: For furnishing pipe, to the MASSILLON IRON & STEEL CO., Massillon, Ohio, at $22.60 per ton for 4-in., and $21.60 for 6-in. pipe; for trenching, laying and filling, to PHILIP SHEETS, at 13 cts. per ft.

*GRAND RAPIDS, MICH.—Bids are asked by the Board of Public Works until 8 p. m., June 25, for the construction, delivery and erection at the pumping station of one vertical triple-expansion, pumping engine of 12,000,000 U. S. gallons capacity in 24 hours. Samuel A. Freshney is Secy. and Gen. Mgr. Bd.

TRENTON, ILL.—The following contracts have been let for furnishing water-works materials: T. A. HARDMAN, Olney, Ill., for furnishing 9 tons of 8-in., 60 tons of 6-in., 63 tons of 4-in. c.-i. water pipe and 2½ tons of specials at $3,070, and for laying pipe, 390 ft. of 8-in. pipe 40 ins. deep at 20 cts. per ft.; 3,680 ft. of 6-in. pipe 38 ins. deep, 17 cts.; 4,850 ft. of 4-in. pipe 36 ins. deep, 15 cts.; for fire hydrants, to RENSSELAER MANUFACTURING CO., Troy, N. Y., for 15 Corey hydrants, 4 ins., 2½-in. nozzle, $21.50 each; gate valves, six 8-in., $18; five 6-in., $9.50; eight 4-in., $6; to REEVES & SKINNER, St. Louis, Mo., for furnishing a 750,000-gallon Epping-Carpenter duplex compound steam pump, 150-HP., to pump against a head of 100 lbs., $12,000. W. A. Fuller is Engr., Chemical Bldg., St. Louis, Mo.

TEMPLETON, IOWA.—Bids are asked until June 6 by the Town Board for the installation of water-works here. M. J. Daeges is Town Clk.

SPRINGFIELD MINN.—Bids are asked by the village until 8 p. m., June 12, for the construction of a water-works system and an outfall sewer for sanitary sewer system. Work will comprise approximately 4,000 ft. of 15-in. sewer, three miles of c.-i. pipe, a 75,000-gallon steel tank and tower 120 ft. high. A. Frederickson is Village Recdr.

NEW ULM, MINN.—Water mains will be laid in German St., from Fourth to Seventh Sts.

*KIOWA, KAN.—Bids are asked by C. H. McBrayer, City Clk., until noon, June 19, for the purchase of $15,000 20-year non-taxable 5% semi-annual water and electric light bonds. J. N. Herr is Mayor.

WAHPETON, N. DAK.—Plans and specifications are on file at the office of Engineering News, New York, for the improvement of the water system at the Wahpeton Indian School. Bids are asked until June 16.

HOUSTON, TEX.—Bids are asked until July 27 by the city for the purchase and installation of a 15,000,000-gallon pump at the water station.

GUTHRIE, OKLA.—The city has awarded the contract to WILLIAM COOPER, Guthrie, at $23,541, for constructing a 2,000,000-gallon water filtration plant.

*CANYON CITY, COLO.—The contract for the construction of the water-works system was awarded on May 22 by the city to J. J. LUMSDEN of Grand Junction, Colo., and J. R. GORDON of Pueblo, Colo., at $263,750. L. D. Dawson is City Clk.

SEATTLE, WASH.—R. H. Thomson, City Engr., has estimated the cost of the following street improvements: Boyer Ave. and other streets, water mains, $8,200; Fourth Ave., North and other streets, water mains, $3,630; 25th Ave., North and other streets, $33,100; East 50th and other streets, water mains, $12,100.

SEATTLE, WASH.—The Board of Public Works has awarded to IDE & JONES the contract for the construction of the Beacon Hill reservoir at $77,455, the contract being contingent upon the approval of the bonds.

SUNNYSIDE, WASH.—Specifications are on file at the office of Engineering News, New York, for the construction of Sulphur Creek wasteway channel and structures near here. Bids are asked by the U. S. Reclamation Service until 2 p. m., July 15. James Rudolph Garfield is Secy.

*LOS ANGELES, CAL.—The Board of Public Works has extended date from July 17 to July 27 for receiving bids for the construction of the Jawbone Div[illegible] of the Los Angeles Aqueduct, with a [illegible] city of 40,000 lin. ft. second-ft., including about [illegible] lin. ft. of lined tunnel, 60,000 lin. ft. lined conduit and 340,000 cu. yds. excavation. Horace B. Ferris is Secy. B[illegible]

GUELPH, ONT.—Bids a[illegible] asked until June 16 for teaming, excava[illegible] laying and back filling for a 24-in. ea[illegible] ware water conduit 20,000 ft. in length[illegible] for cast-iron pipe. Davis & Johns[illegible] Engrs. J. J. Hackney is Mgr. W.-[illegible]

MINITONAS, MAN.—Bids [illegible] asked by Robert Rogers, Minister P[illegible] ks., until noon, June 8, for a quant[illegible] ditching and irrigation work to be [illegible] by the province here.

## SEWERAGE.

*(* denotes that this work is [illegible] ertised in Engineering News*

BOSTON, MASS.—The Board [illegible] Aldermen on May 18 passed a loan order [illegible] amount of $655,000 for sewerage and [illegible] age.

Bids are asked until June 1[illegible] the Metropolitan Water and Sewera[illegible] oard for constructing in earth trench 7[illegible] of 42-in. concrete sewer, 1,640 ft. of 12-[illegible] e sewer, etc., near Section No. 86 of th[illegible] ension of the high-level sewer, South [illegible] ropolitan System, Washington St., Bright[illegible] William M. Brown is Ch. Engr., Sewera[illegible] Wks.

EAST HARTFORD, CONN.—Bi[illegible] are asked by the Fire District Commissio[illegible] Edward King, Chn., until June 16, for [illegible] following sewer work: 800 ft. of 8-in. pi[illegible] n Belden St.; 800 ft. of 10-in. pipe in Bu[illegible] de Ave.; 1,600 ft. of 8-in. pipe in Larrab[illegible] St.; manholes, flush traps, etc. C. Henry [illegible] Olmstead is Engr.

CLINTON, N. Y.—Lederle [illegible] Provost, Consulting Engrs., 39 West 38[illegible] St., New York, are preparing plans for the construc[illegible] tion of a private sewage disposal [illegible] plant here.

NEW YORK, N. Y.—Bids are [illegible] asked by Bird S. Coler, Pres. Boro. of Brooklyn, until 11 a. m., June 10, for the construction of a sewer in Eighth St.

FORT SLOCUM (New Rochelle post-office), N. Y.—M. S. WRIGHT, of South River, N. J., has been awarded the contract for the construction of a sewer at Fort Slocum at $6,376.

*LAKE PLACID, N. Y.—Bids are asked by the Ruisseaumont Sewerage Commission at the office of F. A. Isham, Lake Placid, until 1 p. m., June 16, for laying complete about 2½ miles of sewers from 6 to 10 ins.; manholes, lampholes, flush-tanks, etc. Depth of trenches, from 4 to 21 ft. C. E. Collins, Drexel Bldg., Philadelphia, Pa., is Engr.

NEW BRUNSWICK, N. J.—The Council has passed an ordinance providing for the construction of a public sewer in Sandford St. and for relaying and constructing a public sewer in Delevan St., between Codwise and Railroad Ave.

TRENTON, N. J.—Harry B. Salter, City Engr., is preparing plans and specifications for the construction of sewers in Olden Ave.; Gladstone St. and Farragut Ave., Woodland St., Pennington Ave., Prospect and Short Sts. Bids will soon be asked.

WESTFIELD, N. J.—J. C. PARKS, of Cranford, N. J., has been awarded the contract by the town for the construction of several sewers.

*EAST RUTHERFORD, N. J.—Bids are asked by the Sewer Commission of the Borough Council until 8 p. m., June 22, for the construction of a system of sewers and sewage disposal plants for the borough, approximately 14½ miles of sewers (exclusive of house connections of 6-in. pipe), varying from 8 to 24 ins. in diameter, and two disposal plants. Charles B. Johnson is Borough Clk.

*WASHINGTON, D. C.—Bids are asked until noon, June 8, by the Commissioners of the District of Columbia for the construction of sewers in the district; also until noon, June 15, for the construction of sewers in the district.

*COLUMBIA, MISS.—Bids are asked by the Board of Aldermen until 3 p. m., June 30, for the construction of a complete sewer system. Xavier A. Kramer, Magnolia, Miss., is Engr.

JOHNSON CITY, TENN.—We are officially advised that the following bids were received on May 28 by E. E. Ellsworth, City Recdr., for the construction of a trunk sewer: P. G. Curran, Knoxville, Tenn., $16,487; Borches & Wardrep, Knoxville, $20,713; S. S. Co., Rome, Ga., $21,227; Ball & Thrase, Asheville, N. C., $15,052; S. H. POUDER, Johnson City, $14,936 (awarded contract); L. T. Duke, Johnson City, $15,171; P. J. Flinn, Chattanooga, Tenn., $16,158. L. N. Wilson, Jr., is City Engr.

HAMILTON, OHIO.—The County Commissioners on May 21 awarded the contracts for the construction of the first two sections of Crawford's run sewer as follows: First section, from the river to the east side of Peck Ave., to FRANK J. DAVIS at $8,709; second section, from Peck Ave. to the closed sewer, to C. D. BENNETT, of the Bennett Construction Co., at $9,325. J. E. Pirate is County Audr.

CAMBRIDGE, OHIO.—The Cambridge Land & Development Co. will at once construct a system of sanitary sewers in its Oakland Place addition, the work consisting of 10,000 ft. of 10 and 8-in. vitrified pipe, 20 manholes and eight flush-tanks. O. M. Hoge, of Cambridge is Engr.

NAPOLEON, OHIO.—Bids are asked until June 15 by G. E. Rafferty, Clk. Village Council, for constructing a storm water and sanitary sewer in Union St.

CANTON, OHIO.—C. V. SOMMER was awarded the contract by the Board of Public Service on May 26 for the construction of a sanitary sewer in Myers St., from Union St. east, at 34 cts. per ft.

*CHILLICOTHE, OHIO.—We are officially advised that bids were received on May 28 by the Board of Public Service for constructing 3,000 ft. of reinforced storm-water

sewer as ows: Paul & Kershner, Dayton, Ohio. 5,806; JARDINE, BREWER & TOMLINS Chillicothe, $22,699 (awarded contract); Ironton Construction Co., Ironton, $24,317; T. J. Backus Construction Dayton, $29,223; D. El Sullivan & S. Columbus, Ohio, $30,048; W. H. Ringw & Sons, Chillicothe, $24,106; J. C. Ben Columbus, $27,863; J. B. Mc-Lane, Cincinnati, Ohio, $29,292; C. T. McCracken Co., Columbus, $29,992; Pfaff & Smith, Chillicothe, $35,556; Simpson & Willis, Erie, Pa. 6,370; M. L. Jones, Chillicothe, $30,627. M. Redd is City Engr.

MANSFIELD, OHIO.—C. M. ROWLAND has been awarded contracts by the Board of Public for the construction of sewers in Vine St. and in Sixth and Sycamore St at $3,285 and $5,389, respectively.

PERU, IND.—Bids are asked until June 5 by the for constructing 1,576 lin. ft. of W. Smi concrete sewers in South Peru. A. Merley of Peru, is Engr.; George F. Town Clk.

BLOOMINGTON, IND.—W. H. HARRIS, of Terre aute, Ind., was awarded the contract on May 23 by the City Council for the con truction of a sewerage system here, at $101 Hindrage & Bowlin of Frankfort, Ind., bi 102,683 for this work.

AUBURN, IND.—Bids are asked by the Common Council until 7 p. m., June 15, for the construction of a vitrified pipe sewer in East Seventh St. E. O. Little is City Clk.

CAIRO, ILL.—HANES & CAMERY were awarded the contract on May 21 by the city for the construction of sewers here. Wilbur B. Thistlewood is City Engr.

DOWNERS GROVE, ILL.—Bids are asked by the Board of Local Improvements until 8 p. m., June 11, for the construction of storm and sanitary sewers and culverts. J. W. Hughes is Pres. Bd.

MELROSE PARK, ILL.—Bids are asked until 8 p. m., June 15, by the Board of Local Improvements for the construction of a main outlet sewer. Plans, etc., may be seen at the office of Robert E. Williams, Village Engr., 84 La Salle St., Chicago, Ill.

GREEN BAY, WIS.—Bids are asked by the Committee on Sewers and Plumbing of the Common Council until 2 p. m., June 5, for the construction of a 42-in. 2-ring brick or reinforced-concrete sewer in Ninth St., from the center of State St. west to 50 ft. west of South Maple Ave. Fred F. Martin is Chn. Com.

Contracts were awarded on May 19 by the Committee on Sewers and Plumbing to EUL & COCHEMS, ANTON HURKMAN and H. O. SCHAEFER & CO. for the construction of sewers in sections of Shawano, Woodlawn and North Ashland Aves., West Walnut, Adams, Jackson and Twelfth Sts.

AMES, IOWA.—Bids are asked until June 8 by the city for the construction of a sanitary sewerage system. A. B. Maxwell is City Clk.

DUBUQUE, IOWA.—STREET & STEUCK have been awarded contracts by the Board of Aldermen for constructing a stone arch sewer in Washington St., 350 ft. long, and in Couler St., between Cedar and Sycamore Sts., at $16.75 and $13.75 per lin. ft., respectively.

VIRGINIA, MINN.—Bids are asked until June 9 by the City Council for constructing a sanitary sewer in Sewer District No. 3. E. F. Johnson is City Engr.

ABERDEEN, S. DAK.—Bids are asked until 8 p. m., June 8, by F. W. Raymond, City Audr., for the construction of any or all of the sewers ordered by the City Council. Plans and specifications are on file at the office of the City Engineer.

FORT D. A. RUSSELL, WYO.—CONRAD WALKER, of North Platte, Neb., has submitted the lowest bid, at $3,975, for the construction of a sewer system at Ft. D. A. Russell.

BOONVILLE, MO.—Bids are asked until 8 p. m., June 8, by the City Council for the construction of a sewer in District No. 23. Charles G. Miller is City Clk.

HOUSTON, TEX.—Bids are asked until June 15 by the city for the construction of a sewer lift.

SEATTLE, WASH.—R. H. Thomson, City Engr., has estimated the cost of constructing sewers in First Ave., South and other streets and in 22d Ave. South and other street at $6,900 and $7,400, respectively.

SALT LAKE CITY, UTAH.—JAMES KENNEDY, of Fargo, N. Dak., has been awarded the contract by the city for the construction of a sewer at $58,000. Louis C. Kelsey is City Engr.

## GARBAGE DISPOSAL.

EAST LIVERPOOL, OHIO.—The Board of Health on May 23 awarded the contract to RINEHART BROS. for the collection and disposal of garbage and night soil.

MARYSVILLE, CAL.—CHARLES BREEDEN was awarded the contract on May 18 by the City Council for sprinkling streets at 15½ cts. per block for streets and 1 ct. for alleys for first sprinkling each day; for additional sprinkling during any day 5 cts. for streets only, and if a third sprinkling was ordered for same day the rate to be 2 cts. per block. Alleys are to be sprinkled once a day.

## STREETS AND ROADS.

(* *Denotes that this work is advertised in Engineering News.*)

TIVERTON, R. I.—Bids are asked by the town until 1 p. m., June 6, for the construction of one mile of macadam on the Crandall road. Specifications, etc., may be seen at the office of the Town Clerk and at the offices of Wolstenholme & Buffington, Engrs., 22 Bedford St., Fall River, Mass.

HARTFORD, CONN.—The contract for two sections of gravel road in the town of Beacon Falls was awarded on June 1 by the Highway Commissioner to C. W. BLAKESLEE & SONS, New Haven, Conn., as follows: First section, 6,947 lin. ft., $7,537; second section, 1,200 ft., $1,302. Four 15-in., one 18-in. and one 24-in. tile culverts were called for in specifications. Other bidders were: A. Vito, Thompson, Conn., $9,240; Edward McManus-Waterbury, Conn., $13,876; Pierson Engineering & Constructing Co., Bristol, Conn., $11,453; Frank Breault, Ansonia, Conn., $10,-181; T. H. Gill Co., Boston, Mass. (first section only), $18,896.

HARTFORD, CONN.—Bids are asked for the construction of road work at the office of the State Highway Commissioner until noon, June 8, as follows: 17,483 ft. of gravel on the North Windham road, Windham; 2,505 ft. of macadam road in the town of Enfield; 5,282 ft. of gravel-telford road in the town of Litchfield.

*MADISON BARRACKS (Sacketts Harbor post-office), N. Y.—Bids are asked until 2 p. m., June 24, by the Constructing Quartermaster, U. S. A., for constructing approximately 86,000 sq. ft. of macadam road; resurfacing 14,500 ft. of road, and constructing 32,500 ft. of concrete sidewalks.

NEW YORK, N. Y.—In the United States Circuit Court on May 20 Judge Lacombe issued an order authorizing Frederick W. Whitridge as receiver of the Third Avenue R. R. Co., 42d St., Manhattanville & St. Nicholas Ave. Ry. Co., the Dry Dock, East Broadway & Battery R. R. Co., and the Union St. Ry. Co., to issue receiver's certificates to an amount not to exceed $2,500,000. For the improvement of property and service of the Third Avenue R. R. Co. the following expenditure is included: $436,000 for renewals and repairs to and maintenance of tracks and electrical equipment and paving.

NEW YORK, N. Y.—Joseph Paledino, 1263 59th St., Brooklyn, has submitted the lowest bid, at $13,062, for regulating, grading, curbing and laying sidewalks on 14th Ave., from 39th to 60th St. The Uvalde Asphalt Co., 1 Broadway, New York, was the lowest bidder, at $3,091, for regulating and paving with asphalt pavement the roadway of Halsey St., from Knickerbocker Ave. to the Borough line for the Borough of Brooklyn. Bird S. Coler is Boro. Pres.

ITHACA, N. Y.—The Common Council has awarded the contract to the McGREEVY CONSTRUCTION CO., Ithaca, for curbing and gutter work on several streets.

ROCHESTER, N. Y.—Bids for street improvements were opened on May 27 by the Board of Contract and Supply. The streets to be improved and the lowest bidders were as follows: Stewart St., 5-in. block paving, Whitmore, Rauber & Vicinus, $9,616; Earl St., brick paving, Hagaman, Miller & Hagaman, $3,143; Locust St., brick paving, Frank V. Brotsch Co., $10,611 for Reynoldsville wire cut block; Flower City Park, Whitmore, Rauber & Vicinus, $5,998; Wait St., brick paving, Frank V. Brotsch Co., $3,998 for Reynoldsville wire cut block; Evergreen St., brick paving, from Conkey to Clifford Aves., Julius Friedrich & Co., $12,942 for Clearfield or Mack fire clay brick. Edwin A. Fisher is City Engr.

DUNKIRK, N. Y.—Bids have been received by the city for paving Dove St. as follows: L. H. Gipp, Buffalo, N. Y., $22,081; Interstate Paving Co., Utica, N. Y., $16,484; Goggin & Schultz, Fredonia, N. Y., $18,700; A. J. Corrigan, Jamestown, N. Y., $20,617; Mayer Bros., Erie, Pa., $20,078; R. C. Ruthven, Dunkirk, $21,622.

POUGHKEEPSIE, N. Y.—The Board of Public Works has decided to repave with vitrified brick and lay curb on Main St., from Catharine to Academy Sts., and to set new curb 4 × 20 ins., with joints supported by about 1 cu. ft. of first-class concrete, on both sides of Cottage St., from North Clinton to Smith Sts. R. J. Shields is Clk. Bd.

*HERKIMER, N. Y.—Bids are asked by the Board of Trustees until 8 p. m., June 15, for paving certain streets and avenues in the village, approximately 40,000 sq. yds. William Wright, Jr., is Clk. Bd.

*SALEM, N. J.—The contract for constructing the Penn's Grove and Dancer's Mill road has been awarded by the Board of Chosen Freeholders to GEORGE F. SNIDER & CO., Philadelphia, Pa., at $25,271. J. F. Ayres is Dir. Bd. List of bidders noted on May 14.

SOUTH ORANGE, N. J.—Bids are asked until June 9 by the Road Commission of South Orange Township, for constructing cement sidewalks on Jefferson, Parker, Springfield, Maplewood and Clinton Aves. Lewis P. Taylor, South Orange, is Engr.-in-Charge.

TOMS RIVER, N. J.—Bids are asked by the Board of Chosen Freeholders until June 23 for the construction of a gravel road in Plumstead Township, about three miles long. I. H. Cramer is Engr., Cedar Run, N. J.

LATROBE, PA.—Bids are asked until 8 p. m., June 8, by the Borough for approximately 960 cu. yds. of excavation, setting 8,000 ft. of stone curbing, and laying about 13,800 sq. yds. of brick on South Ligonier St. James C. Oursler is Secy.

HARRISBURG, PA.—The following bids were received on May 23 by the City Highway Department for the following street improvements: State St., from Tenth to 13th Sts., 8,300 sq. yds. of paving and 3,200 ft. of curbing. Barber Asphalt Paving Co., 114 Liberty St., New York, $1.97 per yd. and 99 cts. per ft.; Warren-Quinlan Co., $1.99 and 95 cts; Stucker Bros. Construction Co., $1.99 for brick and 99 cts. for granite curbing and 54 cts. for steel bound granolithic. Crescent St., from Mulberry to Berryhill Sts., 5,800 yds. and 3,200 ft., Barber Asphalt Paving Co., $1.97 and 99 cts.; Warren-Quinlan Co., $1.93 and 94 cts.; Thompson St., from 15th to 17th Sts., 550 yds. and 1,300 ft., Barber Asphalt Paving Co., $1.97 and 99 cts.; Warren-Quinlan Co., $1.94 and 94 cts. Resurfacing Walnut St., from Third St. to Filbert St., 4,850 yds., Barber Asphalt Paving Co., $1.86; Warren-Quinlan Co., $1.93½.

No bids were received for paving Green St., from Reily to Maclay Sts.; Zarker St., from 16th to 17th Sts.; Dauphin, Sixth and Seventh Sts.; Elm St., from 16th to 18th Sts.; 17th St., from Walnut to State Sts.; and the lower end of Fifth St., aggregating 17,050 sq. yds.

WARREN, PA.—Bids are asked by W. M. Lemmon, Chn. St. Com., until noon, June 10, for grading, curbing and paving to the width of 15 ft. on each side of the central line of several streets.

HARRISBURG, PA.—Bids are asked until June 18 by the State Highway Department for the construction of 8,350 ft. of road. Joseph W. Hunter is State Highway Comr.

PITTSBURG, PA.—Bids are asked until 10 a. m., June 8, by the city for repaving, grading, curbing and paving various streets. Alexander B. Shepherd is Acting Dir. Pub. Wks.

WILKES-BARRE, PA.—B. G. COON, of Kingston, Pa., was awarded the contract by the Street Committee for street paving at $2.03 per sq. yd.

D. M. ROSSER received the contract for curbing at 68 cts. per ft.

TACOMA, D. C.—Bids are asked by Capt. H. L. Pettus, J. M., U. S. A., until noon, June 20, for the construction of macadam roads, asphalt block pavement, concrete walks, concrete curbing, brick gutters and crossings, etc., at Washington Barracks. Specifications are on file at the office of Engineering News, New York.

WASHINGTON, D. C.—Bids are asked until noon, June 8, by the Commissioners of the District of Columbia for paving the discharge channel, boundary sewer.

*WASHINGTON, D. C.—Bids are asked by the Commissioners of the District of Columbia until noon, June 13, for grading Massachusetts Ave., N. W., extended; and for filling approaches to the viaduct across the Baltimore & Ohio R. R. on Monroe St., N. E.

JONESVILLE, VA.—Bids are asked until noon, June 5, by Robert L. Pennington, Secy., for about 5.5 miles of macadam roads.

COURTLAND, Va.—THE EMPORIA CONCRETE CO., Emporia, Va., has been awarded the contract for paving the sidewalks of Courtland, Southampton County.

ROCKY MOUNT, N. C.—The Board of Aldermen awarded the contract on May 26 to the ATLANTIC BITULITHIC CO., of Richmond, Va., for paving the business section of the city with bitulithic at about $50,000.

FORT DADE, FLA.—Bids are asked until 8 p. m., June 22, by the Constructing Quartermaster, U. S. A., for the construction of brick roads.

MONTGOMERY, ALA.—Bids are asked until noon, June 15, by Robert Tait, City Treas., for paving the roadway of North Court St., from the south side of Pollard St. to the city limits, with asphalt, brick, bitulithic or belgian blocks.

CLARKSDALE, MISS.—Bids are asked until June 15 by the Mayor and Aldermen for constructing about five miles of sidewalks, with the necessary curbs, gutters, street crossings, driveways and inlets, all of concrete. For specifications and bidding blanks address Walter G. Kirkpatrick, Engr., Jackson, Miss.

CHATTANOOGA, TENN.—The contract has been awarded by the County Board of Education to E. P. NORRIS, Dunean Ave. and Spruce St., Chattanooga, for the construction of concrete walks and fence and limestone curbing, at $4,680. W. S. Beck is Chn. Bd.

PADUCAH, KY.—Bids are asked until June 9 by L. A. Washington, City Engr., for paving portions of Broadway and Jefferson St.

LOUISVILLE, KY.—Bids are asked until June 5 by the Board of Public Works for resurfacing and constructing brick gutters on several streets. J. P. Claybrook is Ch. Engr. Pub. Wks.

COVINGTON, KY.—HEETER & SONS have been awarded the contract for constructing cement sidewalks in Greenup St.

BENJAMIN DRESSMAN has secured the contract for constructing walks in various streets.

WARREN, OHIO.—Bids are asked until noon, June 22, by the Board of Public Service for improving Elm St., from High St. to South St., by paving with asphalt block, draining, curbing, etc. Z. F. Craver is Chn. Bd.

MANSFIELD, OHIO.—The following bids have been received by the Board of Public Service for street improvements: Blymyer Ave., Kreodone block, cement sidewalk, to C. M. ROWLAND, at $3,671; Bowman St., concrete foundation, Metropolitan brick and asphalt filler, to F. GANDERT & SON, $15,-660; Chestnut St., concrete, tar filler and Metropolitan brick, not awarded; Newville Road, limestone foundation, tar filler, Big 4 brick, to J. W. PAULE, $7,227; West First St., concrete foundation, Metropolitan brick, tar filler, cement walk, to F. GANDERT & SON, $6,821; Franklin Ave., sandstone foundation, Metropolitan brick, tar filler, to HERRING & SON, $4,627; East Third St., limestone foundation, Medal block; asphalt filler, to HERRING & SON, $7,979.

DAYTON, OHIO.—The contract for the paving of Ludlow St. with Townsend block, from Washington to Stout St., has been awarded by the Board of Public Service to the J. E. CONLEY CO., at $18,710. Robert E. Kline is City Engr.

CINCINNATI, OHIO.—Bids are asked until noon, June 9, by the Board of Public Service for improving several streets. John J. Wenner is Clk. Bd.

CINCINNATI, OHIO.—Bids are asked until noon, June 26, by the County Commissioners for the improvement of the Blue Rock pike, from the Colerain pike to the Miami River road in Green and Colerain Townships. Fred. Dreihs is Clk., Comrs.

CINCINNATI, OHIO.—Contracts for street improvements were awarded on May 23 by the Board of Public Service, as follows: Paving with asphalt, Cutter St., between Sixth and Wade sts., to the KIRCHNER CONSTRUCTION CO.; Eighth and Plum Sts., at $40,504; with granite, Budd St., between Carr and Harriett Sts., to JAMES AGNESS, at $6,199; with brick, Naeher St., between Linn and Western Aves., CONLEY CONSTRUCTION CO., at $11,143; with brick, Lyons St., between Clifton and Moerlein Aves., to MORAN & SPRINGMEIER, at $3,761; with asphalt, Chestnut St., between Central Ave. and Mound St., to the KIRCHNER CONSTRUCTION Co., at $6,136.

AKRON, OHIO.—The Board of Public Service opened bids on May 26 for the paving of East Thornton St., between Main and Allyn Sts. Bids for both asphalt and tar filler were received. The bids follow: E. McShaffrey & Son, asphalt filler, $14,589; tar filler, $13,129. James Wildes, asphalt filler, $14,332; tar filler, $13,602. Hallinan Bros., asphalt filler, $16,278; tar filler, $15,767. Doll & Lynn, asphalt, $15,240; tar filler, $14,510. John O'Neil, asphalt filler, $14,624; tar filler, $13,164; P. T. McCourt, asphalt filler, $13,289; tar filler, $12,705. J. W. Payne is City Engr.

TERRE HAUTE, IND.—The following bids were received on May 25 by the Board of Public Works for the improvement of North Ninth St., from Spruce St. to Maple ave.: Henry Gottschalk & Bros., $39,460; Roberts & Co., $40,899; Vigo Concrete Co., $41,590; Switzer & Snider, $41,846; Foulkes & Forbes, $41,999; Harris Bros., $43,990.

INDIANAPOLIS, IND.—Bids are asked by the Commissioners of Marion County until June 24 for the construction of a gravel road on the line between Marion and Hancock Counties. Length of road, 3.97 miles. Albert Sahm is County Audr.

MUNCIE, IND.—The Board of Public Works on May 22 awarded contracts for paving as follows: West Main St., from High St. to Kilgore Ave., brick pavement, to DANIELS & LYST, of Anderson, Ind. at $1.83 per sq. yd.; Liberty St., brick pavement, same, at $1.87. John O. Potter is City Engr.

PORTLAND, IND.—Bids are asked by the County Commissioners of Jay County until June 9 for the construction of 14 gravel roads. W. Lee Smith is County Audr.

GREENCASTLE, IND.—D. C. BRACKNEY and E. M. GLIDWELL & SON, Greencastle, Ind., have been awarded the contract by the County for constructing 65,074 ft. of stone road, at $51,723. D. V. Moffitt is County Audr.

DETROIT, MICH.—The Council has awarded contracts for paving with cedar blocks, as follows: Dragon Ave., J. A. MERCIER, 210 Hammond Bldg., Detroit, at $18,144; Seyburn Ave., THOMAS E. CURRIE, 12 Peninsular Savings Bank Bldg., $4,548; Livernois Ave., F. PORATH & SON, $7,503. John J. Haarer is Comr. Pub. Wks.

PORT HURON, MICH.—JOHN DELOVIA has been awarded the contract for repaving Quay St. with Metropolitan brick, at $7,906.

VAN CAMP & CO. have secured the contract for constructing 50,000 sq. yds. of sidewalk.

JOLIET, ILL.—WILLIAM MORAN was awarded the contract on May 27 by the Board of Local Improvements for paving Morgan St., from Pleasant St. to Willow Ave., at $14,428. Hubert A. Stevens is City Engr.

*MOUNT CARMEL, ILL.—Bids are asked until 2 p. m., June 15, for 3,000 ft. of brick paving. Also for building sewers.

RACINE, WIS.—Bids were opened as follows on May 23 by the Board of Public Works for paving Grand Ave., from Sixth to Seventh St., and Washington Ave., from Grand Ave. to Eighth St., about 4,920 sq. yds. of brick paving and resetting 1,757 lin. ft. of stone curbing: Cape & Sons, paving, $2.10; curb, 22½ cts. P. B. Johnson, paving, $2.09; curb, 23 cts. J. O. JONES, paving, $2.08; curb, 20 cts. (awarded contract). N. F. Reichert, paving, $2.10; curb, 24 cts.

BAY CITY, WIS.—Bids are asked until June 8 by the city for 31,650 sq. yds. of brick paving and 19,984 sq. yds. of asphalt paving. H. C. Thompson is City Engr.

FORT DODGE, IOWA.—Bids are asked until June 15 for the construction of concrete combined curb and gutter on First Ave., from 12th to 17th St., etc. C. H. Reynolds is City Engr.

DULUTH, MINN.—Bids are asked until June 5 by the Board of County Commissioners for ditching, grading and graveling the Miller Trunk road. O. Halden is County Audr.

ABERDEEN, S. DAK.—Bids are asked until 8 p. m., June 22, by F. W. Raymond, City Audr., for paving portions of several streets with creosote blocks, brick or asphalt.

COLUMBIA, MO.—H. H. TANDY has been awarded the contract by the city for paving College Ave. and East Broadway, at $21,712 and $16,450, respectively.

GALVESTON, TEX.—County Commissioners have awarded contracts for road work as follows: SUDERMAN-DOLSON CO., for paving 9¼ miles of Deepwater and La Porte road with mud shell, at $54,978, and paving five miles of Washington County road with shell, at $30,693; W. S. HIPP, for laying crushed rock on West Montgomery road, at $20,828, and for constructing 2¼ miles of shell pavement on Houston and Crosby County road, at $20,828; same, for constructing crushed rock pavement on West Montgomery road, at $37,490, and for a similar pavement on Houston and Pierce Junction road, at $23,219.

ABERDEEN, WASH.—H. G. ELLIS and JEREMIAH McGILLICUDDY, of Aberdeen, have been awarded the contract for improving streets, at $4,779.

EVERETT, WASH.—The City Council has awarded the contract for street improvements in the Capitol Hill section to A. THORSING, at $54,451.

OLYMPIA, WASH.—Bids are asked until 2 p. m., June 12, by the State Highway Board, Olympia, for clearing and grubbing the first 5-mile section of State road No. 1. Joseph M. Snow is State Highway Bd.

SEATTLE, WASH.—R. H. Thomson, City Engr., has reported upon the estimated cost of the following street improvements: 25th Ave North and other streets, concrete sidewalks, $29,100; Fourth Ave. North and other streets; Eleventh Ave. North and other streets, concrete sidewalks, $16,940; First Ave. and other streets, concrete sidewalks, $4,700; 24th Ave. North and other streets, concrete walks, $6,000; West Galer St. and other streets, asphalt paving, $81,400.

PORTLAND, ORE.—The following contracts were awarded on May 21 by the St. Com. of the Executive Board: The BARBER ASPHALT PAVING CO., improvement of East 20th St., at $4,339; STAR SAND CO., improvement of Harding St., from southwestern line of Goldsmith St. to northeast line of River St., at $396; PACIFIC BRIDGE CO., improvement of Knott St., at $10,545 (this figure was 10% in excess of the estimate of the City Engr., but was granted on his recommendation after considering an increased cost for crushed rock); R. J. DEBUHR, improvement of Garfield Ave., at $6,562; and the BARBER ASPHALT PAVING CO., improvement of East 17th St., at $17,643.24 (this bid was also 10% in excess of the City Engineer's estimate). Douglas W. Taylor is City Engr.

SAN DIEGO, CAL.—The City Council has awarded the contract for paving C St. to the BARBER PAVING CO., at the following prices: Asphalt paving, per sq. ft., 10$^{9}/_{10}$ cts.; culvert at Eighth and C Sts., complete, $548; at Ninth and C Sts., complete, $450. J. T. Butler is City Clk.

HUNTSVILLE, ONT.—Bids are asked until 8 p. m., June 8, by Thomas M. Cullon, Clk., for the construction of about 2½ miles of concrete walks. Plans and specifications may be seen at the office of Galt & Smith, Consulting Engrs., Toronto, Ont., or at the Town Clerk's office, Huntsville.

MILLE ROCHES, ONT.—Bids are asked until June 8 by the city for the construction of about 900 ft. of granolithic walk here.

L'ORIGINAL, ONT.—Bids are asked until 3 p. m., June 9, by Colin G. O'Brian, Village Clk., for about 30,000 ft. (superficial) of concrete sidewalk here.

## MANUFACTURING PLANTS.

*(* denotes that this work is advertised in Engineering News.)*

FALL RIVER, MASS.—The directors of the Davis Mills will erect a mill to adjoin Mill No. 1, on Quequechan St., it is stated.

CLINTON, MASS.—See under Light and Power Plants.

NEW YORK, N. Y.—In the United States Circuit Court on May 20 Judge Lacombe issued an order authorizing Frederick W. Whitridge as receiver of the Third Avenue R. R. Co., 42d St., Manhattanville & St. Nicholas Ave. Ry. Co., the Dry Dock, East Broadway & Battery R. R. Co., and the Union St. Ry. Co., to issue receiver's certificates to an amount not to exceed $2,500,000. For the improvement of property and service of the Third Avenue R. R. Co. the following expenditures are included: $135,000 for sprinkling and other fire apparatus and their installation at the company's barns; $300,000 for repairs to cars and for purchasing new motors, controllers and other electrical equipment; $225,000 for erection of a car barn for storage and repairing cars upon land owned in Pelham, belonging to the Union St. Ry. Co.

JAMESTOWN, N. Y.—The Golden Furniture Co. will erect at once a factory building at Jones and Gifford Aves. It is to be of brick, five stories in height and will contain 40,000 sq. ft. of floor space.

SCHENECTADY, N. Y.—C. A. Heidrich, Arch., State and Jay Sts., has prepared plans and will receive bids at once for a 1-story brick varnish factory building, 37.8 × 184 ft., for W. H. Wright, State and Jay Sts. Cost, $12,000.

PAINTED POST, N. Y.—The Ingersoll-Rand Co., which has a plant at Painted Post, will move its plant from Tarrytown, N. Y., to Painted Post soon, and enlarge plant at Painted Post 25%. Fred W. Parsons is Gen. Supt.

JERSEY CITY, N. J.—Contracts will be let at once by John T. Rowland, 15 Exchange Pl., Jersey City, for building additions to the factory of the American Type Founders Co., Communipaw Ave.

HOBOKEN, N. J.—F. Steigleiter, Arch., 92 Hudson St., has completed plans for a 2-story dairy building for the Keystone Dairy Co., 211 Bloomfield St. The structure will cost $35,000.

TRENTON, N. J.—John A. Roebling's Sons, South Broad and Canal Sts., Trenton, have obtained a permit to replace the buildings of its plant, which were destroyed by fire.

CHESTER, PA.—It is planned to erect an addition to the plant of the Thompson Worsted Co., Third and Kingston Sts.

WAMPUM, PA.—Contracts for the enlargement of the Crescent Portland Cement Co.'s plant at Wampum, to cost $850,000, have been awarded to the NATIONAL BUILDING & CONSTRUCTION CO., of Ellwood City, Pa. Six buildings will be erected and the capacity will be increased from 2000 to 3,000 bbls. a day. The new buildings will be of concrete construction with structural steel trusses and cement tile roof. Electrical machinery will be installed early next fall. The contracts were awarded by W. J. Prentice, Pres., Farmers' Bank Bldg., Pittsburg. The improvement includes the following: Kiln building, 120 × 200 ft.; raw grinding building, 280 × 100 ft.; dry grinding building, 240 × 60 ft.; coal pulverizing building, 100 × 70 ft.; stock house, 500 × 70 ft.; machine shop and office building.

WASHINGTON, D. C.—Bids were received as follows May 29, at the office of the Quartermaster, Marine Corps, Washington, D. C., for the construction and equipment of two laundries, (a) at Norfolk, Va., and (b) at League Island, Pa. Construction—Charles McCaul Co., Tenth and Sansom Sts., Philadelphia, (b) $5,226; Franklin B. Davis, 35 South 17th St., Philadelphia, (b) $5,700; Horace B. Beal, Philadelphia, (b) $4,550; Ware & Gale, Newport News, Va., (a) $3,746; (b) $4,126; E. D. Fay & Sons, 2666 Richmond St., Philadelphia, (a) $4,637; (b) $3,924; Specialty Construction Co., (a) $3,339, (b) $3,647; H. M. Lucas, Norfolk, Va., (a) $4,450.

Equipment—(1) machinery, A to R, (2) machinery, A to D, (3) machinery, E to R: American Laundry Machinery Mfg. Co., 132 West 27th St., New York, (a1) $4,990, (a2) $1,330, (a3) $3,689; Troy Laundry Machinery Co., 33 Warren St., New York, (a1) $5,372, (a2) $1,445, (a3) $4,228; Brooklyn Specialty Mfg. Co., 524 Nostrand Ave., Brooklyn, N. Y., (a1) $5,535, (b1) $5,442.

FOUNTAIN INN, S. C.—The Fountain Inn Mfg. Co. has awarded contract to G. H. CUTTING & CO., 11 Foster St., Worcester, Mass., for the erection of its additional mill building and operatives' cottages at Fountain Inn. There will be general improvements made throughout the mill village. In the addition the company will install 5,000 spindles, 300 looms and accompanying machinery, which will increase the Fountain Inn complement to 15,000 spindles and 460 looms. All this machinery will turn on the production of print cloth, damask and ginghams, and will be operated by electricity transmitted from the Enoree Power Co.'s development, seven miles distant. All the contracts have been awarded, including that for the spinning machinery, which was given to the SACO & PETTEE MACHINE WORKS, 78 Chauncy St., Newton Upper Falls, Mass., and for the looms which was awarded to the DRAPER CO., of Hopedale, Mass. The company increased its capital stock from $200,000 to $300,000 in order to provide the funds.

ATLANTA, GA.—The Coco-Cola Co., Edgewood Ave., will expend about $50,000 for improvements to building for store and factory. The building will have six stories. C. W. BERNHARDT, Atlanta, has the contract for brick work; the AMERICAN BRIDGE CO., 42 Broadway, New York, has steel contract. George E. Murphy, Chandler Bldg., Atlanta, is Arch. Cost, $50,000.

NEW ORLEANS, LA.—The International Fruit & Vintage Co. will let contract at once for factory building. Plans and construction were prepared by the Metropolitan Building Co., New Orleans. Cost of building, $15,000.

LOUISVILLE, KY.—We are officially advised that Emile Glaser, Arch., 1202 Vine St., Cincinnati Ohio, has been commissioned to prepare plans for a $75,000 concrete cold storage building, to be erected at Louisville, for the John F. Oertel Brewing Co., whose building was recently destroyed by fire. The structure will have three and five stories. Bids for construction will be received in about four weeks.

COLUMBUS, OHIO.—Frank L. Packard, Arch., New Hayden Bldg., has completed plans for an 8-ton ice plant and 25-ton cold storage capacity for the Columbus State Hospital. Cost, $25,000.

The Buckeye Steel Casting Co., of Columbus, Ohio, has awarded contract to the MOUNT VERNON BRIDGE CO., Mount Vernon, Ohio, for the erection of the producer gas building at its plant, and it will let a contract soon for the erection of a pattern shop.

AKRON, OHIO.—A 3-story brick addition to the factory of the Miller Rubber Co. at 1269 South High St., is to be started at once. The building will be 36 × 80 ft., and will replace frame buildings now used as part of the plant. W. F. Pfeiffer is Secy.

CINCINNATI, OHIO.—Bert L. Baldwin & Co., Archs. and Engrs., Perin Bldg., Cincinnati, have let general contract to JAMES GRIFFITHS' SONS CO., Reading Road and East Twelfth St., for a 1-story factory building for the Rebhun Last Co., 315 Hunt St. Cost, $25,000.

LOCKLAND (Cincinnati post-office), OHIO.—Elzner & Anderson, Ingalls Bldg., Cincinnati, are preparing preliminary plans for a paper box factory to be erected in Lockland for the Western Paper Goods Co. Probable cost, $150,000.

MONROE, MICH.—A. A. SCHMIDT, Monroe, has the contract for two buildings to be built at the plant of the Monroe Binder Board Co. One will be 75 × 108 ft. and the other 24 × 50 ft. Both will be constructed of concrete blocks, one story high.

DETROIT, MICH.—Contract has been let by Baxter & O'Dell, Archs., Hammond Bldg., to VINTON CO., Woodbridge & Beaubien Sts., for a 3-story factory for the Stecker Electrical & Machine Co.

CHICAGO, ILL.—The Johnson Chair Co. and Louis Hanson, 126 North Curtis St., have purchased 30 acres at the corner of North 44th and North Aves. The purchasers will divide this property equally between them, each taking fifteen acres. Between their tracts there will be a private street 100 ft. wide. Mr. Hanson plans to put up a 2-story building 60 × 1,000 ft. The cost of this building will be $150,000. The Johnson Chair Co. will put up a larger building costing $250,000.

Contract for carpenter work has been let by Paul Gerhardt, Arch., 109 LaSalle St., to ERICKSON BROS., 84 LaSalle St. This work will be done for a 7-story factory building, at 31-37 Superior St., for J. E. Tilt, 3 Huron St. Cost, $125,000.

LA CROSSE, WIS.—We are officially advised that plans have been prepared by W. E. Bennett, Batavian Bank Bldg., for a 4-story and basement addition to the factory of the Funke Candy Co. Cost, $10,000. The contract has been let to the NORTHWESTERN TILE CO., Milwaukee, Wis.

FORT OMAHA (Omaha post-office), NEB.—Bids are asked by Capt. W. H. Oury, Constr. Q. M., until 10 a. m., June 17, for the construction, plumbing, heating, electric wiring and fixtures of a bakery.

OMAHA, NEB.—The Howard Mfg. Co., of Savannah, Mo., will erect a stove foundry here to cost $50,000.

CANTON, S. DAK.—Bids are asked by the Commissioner of Indian Affairs, Dept. of the Interior, Washington, D. C., until 2 p. m., June 24, for the construction of a laundry building, with equipment, at the Asylum for Insane Indians, Canton. C. F. Larrabee is Acting Comr., Washington.

MARYSVILLE, WASH.—The Union Powder Co., of Seattle, has purchased 56 acres of land two miles north of Marysville and will begin the erection of a powder factory there soon.

EUGENE, ORE.—N. A. Reynolds has let a contract to SOREN JENSEN to construct a building 50 × 150 ft., one story, at the corner of Second and Blair Sts., which will be used for a vinegar and cider factory. The building will be started at once. The purpose is to manufacture vinegar and cider, applebutter, jelly, etc.

SAN LUIS OBISPO, CAL.—Bids are asked by the Board of Trustees of the California Polytechnic School until 9 a. m., June 12, for the erection of a creamery.

LOS ANGELES, CAL.—Bids are asked until 2 p. m., June 5, at Room 18, City Hall, for erecting steel mill buildings for cement plant of city at Aqueduct Station, Kern County, Cal.

FORT WILLIAM, ONT.—The Grand Trunk Pacific Ry. Co., Montreal, Que., has plans for six grain elevators to be erected here with a total capacity of 60,000,000 bushels. B. B. Kelliher is Ch. Engr.

NEW WESTMINSTER, B. C.—THE SCHAAKE MACHINE WORKS CO., of this city, has been awarded the contract for building all of the machinery required for the Moresby Island Lumber Co.'s mill at Queen Charlotte, on the south end of Graham Island. The contract will amount to $70,000, it is stated.

## MISCELLANEOUS CONTRACTS.

*(* denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

DITCH.—Barnesville, Minn.—Bids are asked until June 10 by D. C. Henderson, Town Clk., for constructing a ditch.

DITCH.—Fairmont, Minn.—Bids are asked until June 10 by H. P. Edwards, County Audr., for constructing Judicial Ditch No. 2.

DRAINS.—Boone, Iowa.—Bids are asked until 1 p. m., June 16, by E. F. Jones, County Audr., for constructing County Drain No. 48.

DREDGING.—Seattle, Wash.—Bids are asked by Maj. H. M. Chittenden, Corps Engrs., U. S. A., until noon, June 25, for dredging Pend Oreille River, Wash.

RUBBER HOSE.—New York, N. Y.—Bids are asked until noon, June 9, by Foster Crowell, Comr. St. Cleaning, for furnishing and delivering 5,000 ft. 2½-in. rubber hose.

DREDGE.—Mobile, Ala.—The Southern Dredging Co., of Mobile, has awarded a contract to PETER SMITH, of Pascagoula, Miss., for a new dredge to cost $6,800, exclusive of machinery.

DITCH.—Fergus Falls, Minn.—Bids are asked until June 11 by Wm. Lincoln, County Audr., for digging and constructing Ditch No. 39. Estimated cost, $9,290; also Ditch No. 40. Estimated cost, $2,540.

CHIMNEY.—Eldora, Iowa.—Bids were received by A. L. Murray, Secy. School Board, on May 24 for the erection of one steel-concrete chimney. Contract was awarded to the WEBER CO., Chicago, at $1,100.

*LOCK AND DAM.—Harrisonburg, La.—Bids are asked until noon, July 13, by Capt. Clarke S. Smith, Corps of Engrs., Vicksburg, Miss., for building Lock and Dam No. 2 in Ouachita River at Harrisonburg.

SEAWALL.—San Francisco, Cal.—Bids are asked until June 15 by Geo. McK. Williamson, Constr. Q. M., U. S. A., Fort Mason, San Francisco, for constructing seawall and repairing roadway at Fort Winfield Scott.

RUBBER TIRES.—New York, N. Y.—Bids are asked by Nicholas J. Hayes, Fire Comr., until 10.30 a. m., June 10, for furnishing and delivering new rubber tires for apparatus in Boroughs of Brooklyn and Queens.

*DIKE.—Harrisburg, Pa.—Bids are asked by the Water Supply Commission until 1 p. m., June 23, for constructing a dike and protecting the bank of the Delaware River at Matamoras, Pike County. Thos. J. Lynch, Secy.

HOISTING ENGINES.—Brooklyn, N. Y.—Bids are asked by Bird S. Coler, Pres. Boro. Brooklyn, until 11 a. m., June 17, for furnishing and delivering six steel frame traveling derricks with vertical gasoline hoisting engines.

*PIPING.—Boston, Mass.—Bids are asked until 2.30 p. m., July 6, by the Charles River Basin Commission, 367 Boylston St., for furnishing and installing piping at the lock in the Charles River dam. Hiram A. Miller, Ch. Engr.

*DAM, ETC.—Saltpetre, W. Va.—Bids are asked until 2 p. m., July 2, by Lieut.-Col. J. G. Warren, Corps Engrs., U. S. A., Cincinnati, Ohio, for constructing dam, guidewalls, dwelling, etc., at Lock No. 1, Tug Fork of Big Sandy River, at Saltpetre.

EXCAVATING.—Sacramento, Cal.—The PNEUMATIC DREDGE CO., Sacramento, has been awarded contract by the Board of Trustees for excavating in Southside Park, at 66¾ cts. a cu. yd. for 23,500 cu. yds., and 50 cts. for 5,000 cu. yds. additional.

TELEPHONE SYSTEM.—Virden, Man.—Bids were received recently by James F. C. Menlove, Secy.-Treas., for the installation of a complete rural telephone system in Wallace Municipality. Contract was awarded to JOHN REID, of Virden, at $11,000. Total cost, about $35,000.

LAUNCHES.—Washington, [illegible]—Bids are asked by the Quartermaster-[illegible] Army, until 2 p. m., June 2[illegible] struction and complete equi[illegible] one to 40 32-ft. wooden [illegible] launches for submarine mine [illegible] War Department.

RETAINING WALL.—Bride[illegible] The State Water Supply Co[illegible] awarded the contract for reta[illegible] filling along the Ohio River a[illegible] Beaver County, to C. M. DRI[illegible] burg, Pa., at $21,454. The L[illegible] appropriated $25,000 for this w[illegible]

STEEL FLOATS.—Newport, [illegible]—Bids are asked by R. C. Hollyday, [illegible] of Yards and Docks, Navy De[illegible] ton, until 11 a. m., June 27, [illegible] two steel floats at the governm[illegible] Newport, R. I. Specifications [illegible] office of Engineering News, Ne[illegible]

*BREAKWATER.—Boston, Ma[illegible] asked by the Board of Harbo[illegible] Commissioners, State House, B[illegible] 2 p. m., June 19, for 7,000 to [illegible] granite quarry grout to build an [illegible] the breakwater in Vineyard Hav[illegible] Martha's Vineyard. Frank W. Ho[illegible] Engr.

REPAIRING FERRYBOATS.—N[illegible] N. Y.—Bids were received by [illegible] Spooner, Comr. Docks, on May 2[illegible] Contract No. 1133; for preparing for [illegible] ing the hulls of the municipal [illegible] Contract was awarded to JAMES [illegible] & SONS, foot East Houston St., N[illegible] at $9,984.

*DAM, GUIDEWALLS, ETC.—[illegible]apman, Ky.—Bids are asked by Lieut.-Col. J. G. Warren, Corps Engrs., U. S. A., until 2 p. m., June 26, for constructing dam guidewalls and dwellings, etc., at lock No. 1, Levisa Fork of Big Sandy River, at Chapman, Ky. Last week date was erroneously given as June 6.

DITCH.—Crookston, Minn.—New bids are asked until July 1 by N. A. Hoffard, County Audr., Crookston, for digging and constructing County Ditch No. 72. Estimated cost, $18,000. Bids were asked until May 27, as noted on May 14. The letting of this contract was stopped by injunction and the matter has not as yet been settled.

TRAVELING CRANES.—New York, N. Y.—Bids are asked until June 10 by John H. O'Brien, Comr. Water Supply, Gas and Electricity, for furnishing, delivering and installing two hand-operated traveling cranes, one each in the high pressure pumping stations, located at Gansevoort and West Sts. and Oliver and South Sts., respectively.

DREDGING.—Wilmington, Del.—Bids were received as follows by Maj. C. A. F. Flagler, Corps Engrs., U. S. A., Wilmington, on May 29 for dredging in Salem River, N. J.: River & Harbor Improvement Co., Philadelphia, 24.4 cts. per cu. yd., place meas.; Pennsylvania Dredging Co., Camden, N. J., 19.9 cts.; American Dredging Co., Philadelphia, 20½ cts.

CEMENT.—Pittsburg, Pa.—Bids are asked by F. P. Booth, County Controller, until 2 p. m., June 12, for furnishing about 2,000 bbls. of Portland cement for repairs and construction of county structures, for the ensuing season. Any of the following brands of Portland cement will be considered, viz.: Alsen's Atlas, Giant, Lehigh, Saylor's, Universal or Vulcanite.

SLUICE GATES.—Chicago, Ill.—Bids were received by the Department of Public Works, John J. Hanberg, Comr., on May 14 for furnishing and delivering to the city of Chicago at various gate shafts on the line of the Blue Island Ave. land tunnel ten 8-ft. sluice gates, eight 6-in. valves and eight 6-in. strainers. Contract was let to the COFFIN VALVE CO., Boston, Mass., at $16,890.

BULKHEAD.—Tacoma, Wash.—The Chicago, Milwaukee & St. Paul R. R. Co. has awarded to the TACOMA DREDGING CO., of Tacoma, the contract for erecting the harbor-front bulkhead west of the waterway and dock slip which the railway company will dredge in its 180 acres of tidelands on the Puyallup River. The bulkhead will be approximately 3,600 ft. in length, and will contain 2,000 pilings. E. B. Crane is Resident Engr., C., M. & St. P. Co.

*PILE FOUNDATION, ETC.—Wilmington, Del.—Bids were received as follows by the Light-house Engineer, Wilmington, on May 12 for constructing pile foundation and working platform and depositing riprap at the Miah Maul Shoal light-station, Delaware Bay, N. J.: Franklin K. Wills Co., Wilmington, $25,166 (recommended for acceptance); John J. Williams & Co., Inc., Chester, Pa., $29,275; and Latta & Terry Construction Co., Philadelphia, Pa., $36,750.

DITCH.—Council Bluffs, Iowa.—The joint drainage boards of Harrison and Pattawattamie Counties has let the contract to POLLARD & CAMPBELL, the sub-contractors on the construction of the Boyer Cut-off No. 1, to extend that ditch from the present terminus to the present course of the river, some 3,000 ft. away. The contract was let at the rate of 7 cts. per cu. yd. for earth removed by dredge.

Bids are asked by the Boards until 2 p. m., June 19, for construction of the Boyer Cut-off No. 3.

WHARF REPAIRS.—Newport, R. I.—Bids were received as follows on June 1 by Capt. Willis C. Metcalf, Q. M., U. S. A., 200 Thames St., Newport, for repairs to stone wharf at Fort Rodman, Mass.: Michael A. McCormick, 4 Sherman St., Newport, R. I., $8,300; Joseph P. Cotton, 201 Thames St., Newport, $7,415; Kerr & Beeson, 134 Spring St., Newport, $8,490; Darling & Slade, 57 North Main St., Fall River, Mass., $7,700; Simpson Bros. Corp., 166 Devonshire St., Boston, $10,923; Loftus & Duggan, New Bedford, Mass., $8,472; Benj. Sykes & Co., 17 Highland St., New Bedford, Mass., $7,500. Bids of Loftus & Duggan and Benj. Sykes & Co. were irregular, defective guaranty with the former and none whatever with the latter, which leaves Joseph P. Cotton lowest bidder.

STEEL PILING.—Buffalo, N. Y.—The LACKAWANNA STEEL CO., 217 Ellicott St., Buffalo, has been awarded the contract for 7,000 to[ns] of sheet steel piling required for the construction of the cofferdam for the 60-ft. lock to be built at the Black Rock Harbor end of the United States ship canal, this city. The contract was awarded by the MacArthur Bros. Co., 11 Pine St., New York, which holds the contract from the Federal Government for building the lock, at a cost of $25,000. The sheet piling will be made under patents controlled by the Lackawanna Steel Co., the order having been secured in a series of open tests conducted by Government experts and participated in by the principal steel makers of the country.

*IRON FENCE.—Fort Ontario, N. Y.—Bids were received on May 20 by Lieut. A. R. Williams, Const. Q. M., Oswego, N. Y., for constructing an iron and wire fence at this post. Bids were as follows: Government specification—(A) iron fence; (B) wire fence; (C) iron and wire fence. Different construction—(D) iron fence; (E) wire fence: F. E. Carpenter Co., (D) $6,250, (E) $2,600; N. J. Foundry & Machine Co., (A) $5,958, (B) $1,857, (D) $5,838, (D) $6,029, (D) $6,151, (E) $2,410; Fort Wayne Iron Works, (D) $5,225, (D) $4,940, (E) $955, (E) $1,605; E. H. Tichener & Co., (A) $5,500, (C) $6,-; E. H. Tichener & Co., (A) $5,500, (C) $6,-; 997, (E) $1,497; Champion Iron Works, (D) $5,400; Glen Manufacturing Co., (A) $5,971, (B) $1,465, (C) $7,436; Michael Fitzgerald, (C) $9,917; Anchor Fence Mfg. Co., (A) $5,-908, (E) $1,955, (E) $1,745.

*RIVER WORK.—Columbus, Ohio.—Bids are asked until noon, June 23, by the State Board of Public Works, Columbus, for the improvement of the Miami and Erie Canal, for rebuilding the Middletown Dam; St. Mary's Locks; Miscellaneous work between Cincinnati and Dayton, miscellaneous work between Toledo and Defiance, and Lewistown Dam and waste gates. Also for the improvement of the Northern Division of the Ohio Canal, for building the Tuscarawas Feeder Dam, Summit County; Zoar Dam; culverts at the middle and lower Bolivar Locks; high water waste gates near Navarre; Cemetery bar retaining wall near Massillon; repairing vert Walhonding Canal; extension on Sugar Creek Dam at Canal Dover; culvert and open drain near Nashport; deepening stream and construction of Hilton Dam near Trenton. All estimated to cost about $261,000. Charles E. Perkins is Ch. Engr.

BARGE CANAL.—Albany, N. Y.—Two additional Barge Canal contracts were approved by the Canal Board at its meeting held on May 27, as follows: Contract No. 31, which is for improving the Erie canal at Little Falls, modifying the dam and erecting four guard gates at Rocky Rift; constructing Lock 17; erecting substructure, superstructures and approaches for a bridge; storehouses; wash and dry walls and other incidental work; estimated cost, about $813,000. Contract No. 60, which is for the improvement of the Erie canal from the west end of Contract No. 6 to about one-half mile west of Adams Basin bridge; length, 8.53 miles; estimated cost, about $1,250,000; and Contract No. 64, which is for the improvement of the Erie canal from 600 feet west of Prospect St. bridge, Medina, to 100 ft. east of Gasport bridge; length, about ten miles; estimated cost, $1,200,000. It is expected that F. C. Stevens, Supt. Public Works, will ask for bids on these contracts early in July.

*SEAWALL.—Montgomery, Ala.—Bids were received on May 20 by Capt. H. B. Ferguson, Corps Engrs., U. S. A., Montgomery, for construction of a seawall at Fort Pickens: (A) extra cement, per bbl.: Dodge & Day, No 608 Chestnut St., Philadelphia, Pa., $288,488. (A) $1.70; Chas. Clarke & Co., Galveston, Tex., $364,110. (A) $2.55; Lane Bros. Co., Esmont, Va., $276,645. (A) $1.80; Brewer & Jones, Birmingham, Ala., $236,345. (A) $1.90 (recommended for acceptance); Mason & Hanger Co., Richmond, Ky., $268,400, (A) $2.00; J. D. Poy, Nashville, Tenn., $379,520 (A) $2.00; Blackstaff Eng. Co., Philadelphia, Pa., $390,258, (A) $2.50; Alsop & Pierce, Newport News, Va., $333,175, (A) $2.00; W. T. Carey & Bro., New Orleans, La., $369,957. (A) $2.50; B. S. Hardaway, Columbus, Ga., $288,-055, (A) $2.10; C. H. Turner Constructing Co., Pensacola, Fla., $339,872, (A) $2.20; J. M. Sullivan & L. Davis, Montgomery, Ala., $387,850, (A) $1.75; Robt. C. Storrie, Fort Worth, Tex., $267,690, (A) $2.50; A. V. Stubbs & J. E. Taylor, Pensacola, Fla., $361,-015, (A) $2.15; Edwards Construction Co., Tampa, Fla., $336,844, (A) $2.29; Christie & Lowe, Chicago, Ill., $354,670, (A) $2.50; Jos. E. Bryan & Geo. W. Bryan, Jacksonville, Fla., $306,500, (A) $1.90; V. E. McBee, Jr., Birmingham, Ala., $297,881, (A) $1.80.

## U. S. POSSESSIONS AND CUBA.

TOWING BARGES.—Panama.—Bids were received as follows May 29, at the office of the Isthmian Canal Commission, Washington, D. C., for towing fourteen barges from Newport News, Va., to Colon. The only bid received was that of the Munson Steamship Line, 82 Beaver St., New York, at $2,550 each, in twos of two barges each, delivery to commence in two weeks.

PILES.—Panama.—Bids were received as follows May 28, at the office of the Isthmian Canal Commission, Washington, D. C., for furnishing 6,610 yellow pine or Douglas fir piles of various lengths. Only the bids marked "straight" were on the Government specifications, the others being on various modifications: A. S. Bacon & Co., Savanna, Ga., $[illegible],522; $71,572 (straight); 100 days. G. S. Baxter & Co., 15 William st., New York, $65,241; $61,616; 60 days. J. H. Burton & Co., 45 Broadway, New York, $217,470 (straight); $62,522; 150 days. Chicago Lumber & Coal Co., St. Louis, Mo., $59,804 (straight); 90 days. G. Elias & Bro., Buffalo, $68,945 (straight); 120 days. Arthur Gamwell, Seattle, Wash., $60,529 (straight), on Douglas fir; 60 days. D. L. Gillespie & Co., Pittsburg, $61,616; $90,612 (straight); 60 days. Geo. R. Johnson, Baltimore, $144,980 (straight); $72,490; 150 days. S. E. Naylor & Co., Gulfport, Miss., $59,692 (straight); $57,990; $57,084. Seattle Timber Supply Co., Seattle, Wash., Seattle delivery $28,062 (straight), on fir; 60 days. Southern Sawmill Co., Ltd., New Orleans, $63,942; 68 days. Salmen Brick & Lumber Co., New Orleans, $70,506; 60 days. American Tie & Lumber Co., New York, $57,629; 63 days.

ENGINEERING SUPPLIES.—Panama.—Bids are asked as follows until 10.30 a. m., June 15, at the office of Col. H. F. Hodges, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, for engineering supplies: About 1,000,000 ft. B. M., Douglas fir or long leaf yellow pine, side boards, ext. planks, etc.; about 300,000 ft. B. M., second grade plain sawn white oak lumber for car repairs; one hand planer and jointer, one band saw, one square-base floor grinder, ten duplex chain blocks, three calorific hydro-carbon burners, 300 malleable brake wheels, 100 truck springs, chain, steel, iron, boiler tubes, wrought-iron pipe, wire, nails, screws, steel and manila rope, hose, shovels, spades, pipe chasers, bridge reamers, water and steam gages, valves, lubricating cups, force cups, steam whistles, cotton waste, oil, etc., under Circular 443.

CEMENT.—Panama.—Bids were received June 1 at the office of the Isthmian Canal Commission, Washington, D. C., for furnishing 4,500,000 barrels of Portland cement for use in the construction of the canal. Bids were asked under the following deliveries: For the entire supply, delivered during four years, (A1) on dock within reach ship's tackle, at United States port; (A2) on dock, Colon or La Boca; Delivery B, any portion of the entire supply; (B1) at U. S. port; (B2) Colon or La Boca; Delivery C, not exceeding one-third of the entire amount, to be delivered within one year from the date fixed for commencement of delivery, (C1) at U. S. port; (C2) Colon or La Boca; Delivery D, the entire amount in clinker form to be delivered on the Isthmus. Bids were asked either delivered in ships of American or of foreign register, but only the latter were received. No bids were received on Delivery D. American Trading Co., 25 Broad St., New York, (B2) 1,400,000 bbls., $1.70 per bbl.; (C2) 500,-000 bbls., $1.70. Alpha Portland Cement Co., Easton, Pa., (B1) 2,000,000 bbls., Jersey City or Perth Amboy, N. J., $1.44; (B2) $1.845; (C1) 700,000 bbls., Jersey City or Perth Amboy, $1.41; (C2) $1.84. Lehigh Portland Cement Co. and Alpha Portland Cement Co., Allentown, Pa., (A1) Jersey City or Perth Amboy, $1.425; (A2) $1.825; (C1) Jersey City or Perth Amboy, $1.38; (C2) $1.78, on 1,500,-000 bbls. Breitenburger Portland Cement Fabrik, Hamburg, (B2) 150,000 bbls., $1.82. Commonwealth Portland Cement Co., of Virginia, Munsey Bldg., Washington, D. C., (A1) 88 cts. at mill on C. & O. Ry.; (A2) $1.28. E. J. Duggan, 1133 Broadway, New York, (A2) $1.74 per bbl., in bags, 7.5 cts. rebate for return of bags. East-Asiatic Co., Copenhagen, (B2) 500,000 bbls., $1.70. Edison Portland Cement Co., 1133 Broadway, New York, (B1) Hoboken, 1,500,000 bbls. at $1.34 in bbls.; $1.44 in damp proof bags; (C1) 500,-000 bbls., Hoboken, $1.24 in bbls.; $1.34 in bags; 6.25 cts. rebate. German American Portland Cement Works, La Salle, Ill., (B2) 270,000 bbls., $2.11. Lehigh Portland Cement Co., Allentown, Pa., (B1) 2,700,000 bbls., Jersey City or Perth Amboy, $1.44; (B2) $1.84; (C1) 900,000 bbls., Jersey City or Perth Amboy, $1.395; (C2) $1.795. Martin Earle & Co., Ltd., London, (B2), 1,000,000 bbls., $1.60. J. Meurin, Andernach, Germany, (B2) 1,500,000 bbls., in bags, $1.96, (2) same, 5 cts. rebate. Rhcinisch Westfalishes Cement Syndikat, Bremen, Germany, (B2), 1,000,000 bbls., $2. Suddeutsches Cement Export Kontor, Manheim, Germany, (C1) 100,000, Antwerp or Rotterdam, $1.15; (C2) $1.70. Sussex Portland Cement Co., Ltd., New Haven, England, (B2) 216,000 bbls., 8s. 6d. per bbl. A. W. Themmanson, Wathena, Kan., (C2) $2.30 in bbls., $2.40 in bags, no quantity specified; 14 cts. rebate. Western States Portland Cement Co., Independence, Kan., (B1) 600,000 bbls., New Orleans, $2. Weydert & Saur, Strasburg, Germany, (C2) $2.10; no quantity specified. Wouldham Cement Co., Ltd., Carr Bros., Agents, 32 Broadway, New York, (B2) 1,800,000 bbls., $1.845 per bbl., 43¾cts. per bag; (B2) 900,000 bbls., $1.765 per bbl., 41¾ cts. per bag. M. Luijten, Rotterdam, no quantity specified, 3 guilders, 10 cts., Amsterdam. Santa Cruz Portland Cement Co., Crocker Bldg., San Francisco, Cal., (A1) Oakland, Cal., in bags, $1.3875; (B1) 2,500,000 bbls., in bags, $1.3875; (C1) in bags, $1.3875, 1,500,000 bbls. Portland Cement Works, Antwerp, Belgium, no quantity specified, $1.25 per bbl., Antwerp. Atlas Portland Cement Co., 30 Broad St., New York, (A1) Jersey City or Hoboken, $1.19 in bbls.; $1.60 in double duck bags; 65 cts. at works, Northampton, Pa., Government to furnish bags or bbls. W. R. Grace & Co., 1 Hanover Sq., New York, (C2) 70,000 bbls., $1.87. Pacific Portland Cement Co., Pacific Bldg., San Francisco, (B1) 750,000, Benicia or Port Costa, Cal., $1.70 in bbls., $1.62 in bags, $1.14 in bulk, Government to furnish bags; (B2) La Boca, 850,000 bbls., $2.40 per bbl.; $2.32 in bags, $1.84 in bags furnished by Government.

## TRADE PUBLICATIONS.

METER BOXES.—The Ford Meter Box Co., Hartford City, Ind. Paper; 3½ × 6½ ins.; pp. 20; illustrated.

Meter boxes and their various parts, as made by the company named, are described and illustrated here.

PNEUMATIC TAR SPRAYER.—Thomas Aitken, County Buildings, Cupar, Scotland. Paper; 10¾ × 8 ins.; pp. 7; illustrated.

Mr. Thomas Aitken, M. Inst. C. E., author of the standard British work on road construction, has devised a motor-driven tar-spraying machine for use in building tar macadam roads. The machine is described and its advantages summarized in this pamphlet.

**For other Proposal Advertisements see pages 39, 40, 42, 44, 48, of Advertisements and Construction News page 196.**

## DIKE WORK.

COMMONWEALTH OF PENNSYLVANIA. OFFICE OF THE WATER SUPPLY COMMISSION.

Sealed proposals will be received at the office of the Water Supply Commission of Pennsylvania until 1.00 P. M., Tuesday, June 23d, 1908, for the work of constructing a dike and protecting the bank of the Delaware River for a distance of approximately 2,200 feet at the Borough of Matamoras, Pike County, Pennsylvania, in accordance with the provisions of an Act of the General Assembly of the Commonwealth of Pennsylvania, entitled "An Act to authorize the building of a dike, or dikes, for the protection of the public road and of the property adjacent to the Delaware River, in the Borough of Matamoras, and in the Township of Delaware, and making an appropriation therefor," approved the 13th day of June, A. D. 1907, (P. L. 646); said work to be done in accordance with plans and specifications now on file in the office of the Water Supply Commission of Pennsylvania, at Harrisburg, Pennsylvania, where they can be examined. All proposals must be endorsed: "Proposals for construction of works for the protection of the Delaware River bank at Matamoras Borough, Pike County, Pennsylvania," and must be accompanied by a bond or certified check in the sum of 10% of the amount bid, which will be returned to the bidder unless forfeited. The right is reserved to reject any and all bids.

THOMAS J. LYNCH, Secretary,
Water Supply Commission of
23-2t Pennsylvania.

## PUMPING MACHINERY.

Grand Rapids, Mich., May 14, 1908.

Sealed proposals will be received by the Board of Public Works at their office in the City of Grand Rapids, Michigan, until 8 o'clock P. M., on the 25th day of June, 1908, for the construction, delivery and erection at the Water Works Pumping Station, of one vertical triple expansion pumping engine, having a normal capacity of twelve million U. S. gallons of water in twenty-four hours. The machinery to be constructed in accordance with specifications on file at the Office of the Board of Public Works. Copies of specifications will be mailed upon request.

Bidders must personally inspect the proposed site for the machinery and must submit with their bids, drawings showing clearly the design and construction of the machinery, space occupied, foundations required, etc.

Proposals will be considered only from parties regularly engaged in the manufacture of pumping machinery. Bidders must also satisfy the Board of Public Works as to their mechanical and financial ability to construct the machinery required.

All bids must be made upon a blank form of proposal furnished by the Board, and must be accompanied by a certified check drawn to the order of Geo. C. Peirce, President of the Board of Public Works, in the sum of five (5) per cent of the proposal; said check being returned to the successful bidder on the signing of a contract and the execution of a satisfactory bond of Twenty-five Thousand ($25,000) Dollars. The checks of the unsuccessful bidders will be returned to them after the awarding of the contract.

In awarding the contract consideration will be given to general merit of design as well as the price, and the Board reserves the right to reject any or all bids and to accept any bid which the Board may deem to be for the best interests of the City of Grand Rapids.

GEO. C. PEIRCE,
President, Board of Public Works.
Attest:
SAMUEL A. FRESHNEY,
Secretary and General Manager.
L. W. ANDERSON,
City Engineer. 23-2t

## GAS AND NAPHTHA LIGHTING.

City of Boston, Mass.

The Superintendent of Streets of the City of Boston, Office 47 City Hall, invites proposals for lighting with gas and naphtha incandescent mantle burners on such streets, parks and alleys as may from time to time be designated by the Superintendent for five years from August 1, 1908. The present number of gas lamps is about 10,500, and the number of naphtha lamps about 1,400. The City will furnish the posts and service pipes. The bidders must state a price per lamp per annum for each of the following lamps or clusters: 1. For single gas incandescent burners. 2. For single gasoline or naphtha incandescent burners. 3. For a lantern with two gas incandescent burners. 4. For a lantern with three gas incandescent burners. 5. For a cluster of two lanterns with one gas incandescent burner each. 6. For a cluster of two lanterns with two gas incandescent burners each. 7. For a cluster of three lanterns with one gas incandescent burner each. 8. For a cluster of three lanterns with two gas incandescent burners each. In the case of the gas lamps, the bids may include the furnishing of the gas as well as the furnishing, maintenance and lighting of the lamps; or, in the alternative, may be confined to the furnishing, maintenance and lighting of the lamps, the City to furnish the gas. Only proposals obtained at said office, filled out, signed by the bidder and left at said office on or before 12 o'clock m. of Wednesday, July 1, 1908, with a certified check for $5,000, payable to and to be the property of the City if the proposal is not carried out, will at said hour and place be publicly opened and read. The successful bidder will be required to furnish a bond in the sum of $100,000 of a surety company authorized to do business in the State of Massachusetts. Samples of the equipment, including lanterns, burners, etc., must be submitted with the bid. The Superintendent reserves the right to reject any and all proposals should he deem it for the interest of the City so to do, and to give preference to the proposals of bidders agreeing to pay the trades unions rates of wages. GUY C. EMERSON, Superintendent of Streets. Boston, June 1, 1908. 23-1t

## HYDROTHERAPEUTIC APPARATUS.

Albany, N. Y.

Sealed proposals, endorsed "Proposals for Hydrotherapeutic and Prolonged Bath Equipment and Construction, for Utica, Poughkeepsie and Binghamton State Hospitals," will be received by the State Commission in Lunacy, at the Capitol, Albany, N. Y., up to 3 o'clock P. M., on the 24th day of June, 1908, when they will be opened and read publicly.

Proposals shall be accompanied by a certified check in the sum of Five Hundred Dollars for the work at each institution, and the contractor to whom the award is made will be required to furnish Surety Company bond in the sum of Two Thousand Dollars for the work for each institution. The right is reserved to reject any and all bids.

Drawings and specifications may be consulted and blank form of proposal obtained at the Utica State Hospital, Utica, N. Y., Poughkeepsie State Hospital, Poughkeepsie, N. Y., Binghamton State Hospital, Binghamton, N. Y., or at the office of the State Architect. Complete sets of plans and specifications will be furnished to prospective bidders, upon reasonable notice to and in the discretion of, the State Architect, Franklin B. Ware, Albany, N. Y.

T. E. McGARR, Secretary,
23-3t State Commission in Lunacy.

## BOILERS.

Atlanta, Ga., May 26, 1908.

Sealed bids will be received by the Board of Water Commissioners until 4 o'clock P. M., Wednesday, July 8th, 1908, for three (3) 300-HP. Horizontal Water-Tube Boilers, working pressure 200 pounds.

Boilers to be erected, bricked in complete on foundations furnished by the City, at Hemphill Pumping Station No. 2, Atlanta Water-Works, on Southern Belt Railroad, and ready for steam connections by October 1, 1908. Specifications must accompany bid, also specifications for foundations.

Certified check in the sum of Five Hundred ($500.00) Dollars must accompany bid, same to be forfeited to the City as liquidated damages upon failure of successful bidder to enter into and sign contract and give bond within ten (10) days from award of contract.

A surety bond, acceptable to the Board of Water Commissioners, equal in amount to one-third of the contract price of said boilers will be required of successful bidder, to insure the faithful performance of contract, in accordance with plans and specifications, as approved by the Board of Water Commissioners.

The Board reserves the right to reject any or all bids.

BOARD OF WATER COMMISSIONERS.
By PARK WOODWARD,
23-2t General Manager.

## SEWERS AND SEWAGE DISPOSAL.

East Rutherford, N. J.
June 1, 1908.

Separate sealed proposals will be received by the Sewer Committee of the Borough Council of the Borough of East Rutherford, N. J., at 8.00 p. m., Monday, June 22, 1908, at the Municipal Building, East Rutherford, N. J., for the construction of a system of sewers and sewage disposal plants for the Borough of East Rutherford.

There will be, approximately, fourteen and one-half miles of sewers (exclusive of house connections of 6" pipe), varying from 8" to 24" in diameter, required, also two disposal plants.

A certified check for $2,500.00 must accompany the bid for the sewers, and a certified check for $750.00 must accompany the bid for the disposal plants. The right to reject any or all bids, or to accept that which may be deemed best for the Borough, is expressly reserved.

Plans may be seen and specifications and forms of proposals may be obtained at the office of the Borough Clerk, or at the office of Messrs. Wise & Watson, Civil and Sanitary Engineers, Rutherford, N. J.

By order of the Mayor and Council.

CHAS. B. JOHNSON,
Borough Clerk.

23-2t

## PIPING.

COMMONWEALTH OF MASSACHUSETTS. CHARLES RIVER BASIN COMMISSION.

Sealed proposals will be received at the office of the Charles River Basin Commission, 367 Boylston street, Boston, Mass., until 2.30 o'clock, P. M., of Monday, July 6, 1908, for furnishing and installing piping at the Lock in the Charles River Dam. Pamphlets containing further information for bidders, forms of proposal, contract and specifications will be mailed to contractors who apply to the Chief Engineer, or may be obtained at his office, 367 Boylston street, Boston, where also plans may be seen. It is expected that the pamphlets and plans will be ready about Friday, June 12, 1908. Sets of plans may be taken from the office upon making a deposit of two dollars for each set taken, this deposit to be refunded upon return of the plans. The printed form must be used in making proposals. The Commission reserves the right to reject any or all proposals and to accept the proposal deemed best for the Commonwealth. HENRY D. YERXA, Chairman; JOSHUA B. HOLDEN, EDGAR R. CHAMPLIN, Charles River Basin Commission; HIRAM A. MILLER, Chief Engineer; WILLIAM S. YOUNGMAN, Secretary. 23-2t

## PAVING AND SEWERS.

Mt. Carmel, Ill., June 1, 1908.

Sealed proposals will be received by the President of the Board of Local Improvements at Mt. Carmel, Ill., until 2.30 P. M., Monday, June 15, 1908, for constructing 3,000 feet of brick pavement on Fifth Street. Approximate quantities as follows:

6,100 cu. yds. earth excavation.
11,115 sq. yds. vitrified brick pavement on concrete foundation.
6,776 lin. ft. combined curb and gutter.
361 ft. marginal curb.
17 inlets.
3 catch basins.
10 junctions.
194 ft. 30-inch sewer.
1,936 ft. 24-inch sewer.
95 ft. 18-inch sewer.
532 ft. 16-inch sewer.
612 ft. 12-inch sewer.

Proposals must be made upon special forms to be had upon application to G. W. Courter, City Engineer.

T. B. WRIGHT, Jr.,
President of the Board.
23-2t

## CONCRETE INTAKE PIER, PIPE, GATE-HOUSE, ETC., FOR TOLEDO FILTRATION WORKS.

Toledo, O.

Sealed proposals will be received at the office of the Board of Public Service, Toledo, O., until twelve o'clock noon, standard time, of the seventh day of July, 1908, and then opened and read for the furnishing of all labor and materials necessary to complete ready for use the following described items, the same being Contract No. 10 for the Improvement of Water Supply.

First.—A concrete intake pier, approximately fifty-five (55) feet by twenty-six (26) feet at the base and forty-three (43) feet in height, including the necessary dredging, etc. The pier stands in approximately twenty (20) feet of water, and will contain approximately nine hundred and twenty-five (925) cubic yards of concrete.

Second.—The furnishing and laying of approximately seven hundred and eighty (780) feet of forty-eight (48) inch submerged intake pipe, including necessary dredging, back filling, etc.

Third.—A brick gate house, twelve (12) by thirty (30) feet on top of intake pier.

Copies of the plans and specifications, and forms for proposals, bond and contract, can be seen at the office of the Chief Engineer of the Board of Public Service, Valentine Building, Toledo, Ohio, or will be furnished by the Chief Engineer on payment of ten (10) dollars for each set, which amount will be returned upon the return of the plans and specifications in good order on or before July 15, 1908.

The Board of Public Service reserves the right to reject any or all bids, or to accept any bid which it may deem advantageous to the City of Toledo.

By direction of the Board of Public Service.

G. W. TONSON,
President.

Attest:
REYNOLD VOIT,
Secretary. 23-2t

COMMONWEALTH OF MASSACHUSETTS.—Board of Harbor and Land Commissioners, State House, Boston, June 1, 1908.—Sealed bids or proposals, indorsed "Proposals for Breakwater," will be received by the Board of Harbor and Land Commissioners, Room 131, State House, Boston, Mass., until 2 o'clock p. m., Friday, June 19, 1908, and then and there will be publicly opened and read. The work to be done is the furnishing and placing in position of from 7,000 to 8,000 tons of granite quarry grout to build an extension to the breakwater in Vineyard Haven Harbor, Martha's Vineyard. All proposals must be made upon blank forms which, together with information in regard to the work, may be obtained at the office of the Board, where plans and specifications may be seen. Each bidder will be required to give to the Board satisfactory assurance of his competency, experience and responsibility. The right is reserved to reject any and all bids and to waive any defect or informality, at the discretion of the Board. GEORGE E. SMITH, HENRY J. SKEFFINGTON, SAMUEL M. MANSFIELD, Harbor and Land Commissioners. FRANK W. HODGDON, Chief Engineer. 23-1t

OFFICE OF THE COMMISSIONERS, D. C., Washington, May 29, 1908.—Sealed proposals will be received at this office until noon, Saturday, June 13, 1908, for grading Massachusetts Avenue, N. W., extended; and for filling approaches to the viaduct across the B. & O. R. R. on Monroe Street, N. E. Blank forms of proposal, specifications, and all necessary information may be obtained at Room 43, District Building. HENRY B. F. MACFARLAND, HENRY L. WEST, JAY J. MORROW, Commissioners, D. C. 23-1t

# Situations Wanted

### Mechanical and Electrical Engineers.

MECHANICAL ENGINEER and first-class draftsman, German, 15 years' experience in all kinds of machinery, layout of largest industrial plants, inventive, desires position. Address "M. A. 23," Engineering News, New York. 23-1t

### Civil Engineers.

COMPETENT RAILROAD and civil engineer desires engagement, preferably South America or tropics; thoroughly acclimated; speaks some Spanish; excellent references. Address "I. A. 23," Engineering News, New York. 23-12t

CIVIL ENGINEER, technical education, 12 years' experience railroad location, construction and maintenance; also municipal work, as assistant engineer; field or office; excellent draftsman; salary moderate; go anywhere. Address "F. A. 23," Engineering News, New York. 23-1t

ENGINEER (32), 10 years' experience, railway location and construction with heavy masonry and track laying, desires position; will go anywhere. Address "E. A. 23," Engineering News, New York. 23-3t

ENGINEER of large experience in difficult location and all kinds of railroad construction, is open for engagement. Graduate of Troy Polytechnic. Can furnish party and entire outfit. Address "D. A. 23," Engineering News, New York. 23-2t

CIVIL ENGINEER (27) with six years' experience on railroad location and construction through the Alleghanies. Experienced in tunnels, river crossings, etc. Desires position as assistant locating or resident engineer. Will consider a minor position. First-class temperate man; best references. Address BOX 57, Hedgesville, W. Va. 23-2t

### Bridge and Structural Engineers.

STRUCTURAL MAN, ten years' experience, Cornell graduate, now holding responsible position with general contractors, would like change; salary, $200 a month. Address "K. A. 23," Engineering News, New York. 23-2t

BRIDGE AND STRUCTURAL ENGINEER, technical graduate, seven years' wide experience in detailing, designing and estimating, wishes to change location; familiar with reinforced concrete design and construction. Address "S. A. 18," Engineering News, New York. 23-1t

### Surveyors.

POSITION WANTED—By young man for transit or level work. Graduate John B. Stetson Tech. School. Best references as to experience and practical ability. Address "G. A. 23," Engineering News, New York. 23-2t

STUDENTS of a college desire positions as chainman, rodman, leveller, transitman, during vacation from June 15 to Sept. 1; practice desired more than salary. Address "L. A. 23," Engineering News, New York. 23-2t

COOPER INSTITUTE STUDENT, 20, two years' experience as rodman, chainman, instrumentman and draftsman, desires position; references. Address "R. A. 18," Engineering News, New York. 23-1t

WANTED—Position as topographer or levelman by young man (24), 5 years' experience, past two years with the Tidewater Railway Company. Can furnish best of reference, no preference as to location. Address "C. A. 23," Engineering News, New York. 23-1t

### Draftsmen.

WANTED by lady, position as draftsman in engineer's office; references furnished. Salary moderate. Address "I. B. 18," Engineering News, New York. 23-1t

### Superintendents, Misc., etc.

DRAFTSMAN or Transitman, seven years' experience, good letterer; any location. Address "H. A. 23," Engineering News, New York. 23-1t

WANTED—Position as managing engineer or sales manager by an engiher who has had five years' experience as head of sales offices, including four years in Germany and France. Can accept suitable engagement at once. Address "O. A. 23," Engineering News, New York. 23-1t

# Situations Open

WANTED—An instructor in a New England College to substitute next year in Civil Engineering courses. Address "R. A. 23," Engineering News, New York. 23-1t

WANTED—Several structural detailers and checkers. THE HINKLE IRON CO., 534 West 56th Street, City. 23-1t

WANTED—Quick, intelligent draftsman, experienced in furnace design, construction and estimating. Address "P. A. 23," Engineering News, New York. 23-1t

# FOR SALE

FOR SALE.

One hundred and seventeen acres, 20 miles from St. Louis. River and rail transportation. Contains first-class shale, fire clay and a 26-inch vein of coal. All can be dug with steam shovel, no mining necessary. For particulars and analysis of clay and shale, address T. P. PLUMRIDGE,
23-1t 211 N. 7th St., St. Louis, Mo.

FOR SALE.

### Library and Instruments of the late George W. Rafter

including three drawing tables, set splines and weights, pair plain 7" proportional dividers, T-square, set sand sieves, etc. For catalog of library and information regarding instruments, apply to J. R. WILLIAMS, Administrator, 290 Monroe Avenue, Rochester, N. Y. 23-1t

FOR SALE.

### Two 22-inch Double Leather Belts

68 ft. long. In first-class condition.

MASSILLON IRON & STEEL CO.,
Massillon, O. 23-2t

FOR SALE

3—42-in. gage Saddle-back ... motives.
1—1½ yd. Lidgerwood E... ...
1—2 yd. Lidgerwood Ex... actual value.
Above will be sold for on... Cor. Third Y. 23-1t

Address HARRY W. RO...
Ave. and Lansing St., U...

**BOILERS For Sale a...** Figures
2 Abendroth & Root 2... water tube
boilers, 2 yrs. old, 150 lbs... and 3 yrs.
old, 160 lbs. steam, respect... Abendroth
& Root 150-HP. water tu... 10 yrs.
old, 150 lbs. steam and 11... 125 lbs.
steam, respectively. 1 Big... Manning
boiler, 165-HP., 125 lbs. ... The steam
pressures mentioned were t... wood unde-
recent inspections. Addr... CHASING
DEPT., THOMAS G. PL... COMPANY
Boston, Mass. 23-2t

FOR SAL...

1 Western Grader.
9 Wheeled Scraper...
1 150 H.P. Portab... Boiler.

**T. P. CONARD & CO.**
2 South 15th St. Philadelphia, Pa.
23-1t

FOR SALE

1—No. 5 Pulsometer Pump and ... ings.
1—Emerson Jr. Pump.
1—Half-yard Chicago Cube Concrete Mixer, on Skids, without power.
1—No. 1 Smith Mixer, on wheels, with power.
1—Batch Feeding Hopper and Supporting Frame, for No. 1 Smith Mixer.
1—No. 4 Emerson Steam Vacuum Pump.
2—Koppel's Standard All-around Dump Cars, 18 cu. ft. capacity, 20" gage.
2—Wiener's Standard Scoop-shaped all-around Dump Cars, 18 cu. ft. capacity, 18" gage.
3—Boston & Lockport Co.'s No. 3 Imp. Frictionless, Non-chokable, Side Suction Edson Pumps.

BERLIN CONSTRUCTION CO.,
Berlin, Conn. 23-1t

FOR SALE.

## Traction Engine

Made by Huber. Cylinders 9 × 11". Eighteen horsepower. Fine shape. $600.00 f. o. b. cars Philadelphia. Have others at low prices.

JOHN B. WATSON,
Drexel Bldg., Philadelphia, Pa.
23-1t 'Most Everything for the Contractor.

# Miscellaneous Wants

WANTED.

### Three-Motor Second Hand Electric Traveling Cranes

good condition. Two 65 ft. span, 5 ton capacity. One 38 ft., 5 ton, with auxiliary trolley. One 70 ft., 2½ ton. One 30 ft., 5 ton. State speeds. Address "E.," 7th Floor, Heeren Bldg., Pittsburg, Pa. 23-1t

# BUSINESS OPPORTUNITY

Splendid opportunity for a structural steel man. A controlling interest for sale in an incorporated company manufacturing structural steel and ornamental iron for buildings in a thriving Western city. The company has been long established, has a fine business. Sales this year 50% over last. $25,000 cash buys this interest, and a good man can make the business pay him $8,000 to $10,000 per year. Do not answer unless you have the cash and mean business. With this interest goes position of president and general manager. Address "A. 23," c/o Engineering News, New York. 23-2t

# TWENTY INTERURBAN ELECTRIC CARS

### FOR SALE AT GREAT BARGAIN

Completely equipped, elegant condition, and ready for immediate service; Pullman bodies, 48 ft. over bumpers; M. C. B. trucks, with steel tire wheels; 4-motor equipment, G. E. No. 50 (65 H.P. each); air brakes, etc. Suitable for heavy passenger service, private car, locomotive or freight or construction car. Special bargain price on cars sold before June 30th. Photo, description and price upon receipt of telegram.

UNION RAILWAY SUPPLY CO.,
23-2t Real Estate Trust Building, Philadelphia.